

ATOM	1727	ND2	ASN	A	226	23.816	46.408	68.154	1.00100.07	A
ATOM	1728	C	ASN	A	226	26.408	48.508	65.870	1.00 61.29	A
ATOM	1729	O	ASN	A	226	26.799	48.521	64.706	1.00 61.29	A
ATOM	1730	N	PRO	A	227	27.117	49.048	66.868	1.00 40.31	A
ATOM	1731	CD	PRO	A	227	26.527	49.417	68.167	1.00 59.71	A
ATOM	1732	CA	PRO	A	227	28.412	49.703	66.712	1.00 40.31	A
ATOM	1733	CB	PRO	A	227	28.206	50.984	67.487	1.00 59.71	A
ATOM	1734	CG	PRO	A	227	27.521	50.456	68.713	1.00 59.71	A
ATOM	1735	C	PRO	A	227	29.549	48.893	67.313	1.00 40.31	A
ATOM	1736	O	PRO	A	227	29.310	47.992	68.110	1.00 40.31	A
ATOM	1737	N	GLU	A	228	30.784	49.246	66.962	1.00 59.63	A
ATOM	1738	CA	GLU	A	228	31.964	48.552	67.476	1.00 59.63	A
ATOM	1739	CB	GLU	A	228	32.915	48.224	66.326	1.00100.07	A
ATOM	1740	CG	GLU	A	228	33.255	49.422	65.465	1.00100.07	A
ATOM	1741	CD	GLU	A	228	34.162	49.065	64.309	1.00100.07	A
ATOM	1742	OE1	GLU	A	228	33.737	48.260	63.448	1.00100.07	A
ATOM	1743	OE2	GLU	A	228	35.299	49.592	64.265	1.00100.07	A
ATOM	1744	C	GLU	A	228	32.684	49.388	68.534	1.00 59.63	A
ATOM	1745	O	GLU	A	228	32.123	49.679	69.587	1.00 59.63	A
ATOM	1746	N	ALA	A	229	33.934	49.743	68.247	1.00100.07	A
ATOM	1747	CA	ALA	A	229	34.773	50.566	69.119	1.00100.07	A
ATOM	1748	CB	ALA	A	229	34.435	52.038	68.894	1.00 56.47	A
ATOM	1749	C	ALA	A	229	34.789	50.255	70.622	1.00100.07	A
ATOM	1750	O	ALA	A	229	34.070	49.374	71.102	1.00100.07	A
ATOM	1751	N	SER	A	230	35.639	50.989	71.346	1.00100.07	A
ATOM	1752	CA	SER	A	230	35.799	50.856	72.800	1.00100.07	A
ATOM	1753	CB	SER	A	230	37.154	50.233	73.130	1.00 57.13	A
ATOM	1754	OG	SER	A	230	37.372	50.230	74.531	1.00 57.13	A
ATOM	1755	C	SER	A	230	35.685	52.219	73.501	1.00100.07	A
ATOM	1756	O	SER	A	230	34.764	52.982	73.219	1.00100.07	A
ATOM	1757	N	ALA	A	231	36.612	52.528	74.411	1.00100.07	A
ATOM	1758	CA	ALA	A	231	36.574	53.813	75.124	1.00100.07	A
ATOM	1759	CB	ALA	A	231	35.302	53.907	75.890	1.00 66.54	A
ATOM	1760	C	ALA	A	231	37.742	54.071	76.077	1.00100.07	A
ATOM	1761	O	ALA	A	231	38.231	53.088	76.677	1.00100.07	A
ATOM	1762	OT	ALA	A	231	38.121	55.259	76.240	1.00 66.54	A
ATOM	1763	CB	ALA	B	6	27.155	51.553	47.423	1.00 79.56	B
ATOM	1764	C	ALA	B	6	27.338	52.268	49.835	1.00100.07	B
ATOM	1765	O	ALA	B	6	28.190	51.919	50.660	1.00100.07	B
ATOM	1766	N	ALA	B	6	29.209	52.643	48.225	1.00100.07	B
ATOM	1767	CA	ALA	B	6	27.726	52.605	48.381	1.00100.07	B
ATOM	1768	N	ALA	B	7	26.035	52.373	50.100	1.00100.07	B
ATOM	1769	CA	ALA	B	7	25.360	52.131	51.384	1.00100.07	B
ATOM	1770	CB	ALA	B	7	23.995	51.490	51.113	1.00 82.99	B
ATOM	1771	C	ALA	B	7	26.025	51.387	52.545	1.00100.07	B
ATOM	1772	O	ALA	B	7	27.244	51.216	52.605	1.00100.07	B
ATOM	1773	N	ALA	B	8	25.168	50.977	53.481	1.00 78.31	B
ATOM	1774	CA	ALA	B	8	25.552	50.243	54.678	1.00 78.31	B
ATOM	1775	CB	ALA	B	8	25.669	48.777	54.336	1.00 59.34	B
ATOM	1776	C	ALA	B	8	26.836	50.736	55.352	1.00 78.31	B
ATOM	1777	O	ALA	B	8	27.845	50.037	55.357	1.00 78.31	B
ATOM	1778	N	PRO	B	9	26.808	51.938	55.956	1.00 67.12	B
ATOM	1779	CD	PRO	B	9	25.683	52.886	56.059	1.00 58.31	B
ATOM	1780	CA	PRO	B	9	27.999	52.480	56.619	1.00 67.12	B
ATOM	1781	CB	PRO	B	9	27.659	53.954	56.775	1.00 58.31	B
ATOM	1782	CG	PRO	B	9	26.204	53.908	57.060	1.00 58.31	B
ATOM	1783	C	PRO	B	9	28.303	51.814	57.958	1.00 67.12	B
ATOM	1784	O	PRO	B	9	27.549	50.963	58.428	1.00 67.12	B
ATOM	1785	N	VAL	B	10	29.413	52.213	58.568	1.00 72.37	B
ATOM	1786	CA	VAL	B	10	29.830	51.657	59.847	1.00 72.37	B
ATOM	1787	CB	VAL	B	10	31.334	51.424	59.891	1.00 48.12	B
ATOM	1788	CG1	VAL	B	10	31.740	50.974	61.282	1.00 48.12	B
ATOM	1789	CG2	VAL	B	10	31.730	50.403	58.846	1.00 48.12	B
ATOM	1790	C	VAL	B	10	29.508	52.578	60.995	1.00 72.37	B
ATOM	1791	O	VAL	B	10	29.775	53.771	60.912	1.00 72.37	B
ATOM	1792	N	PHE	B	11	28.978	52.017	62.079	1.00 72.74	B
ATOM	1793	CA	PHE	B	11	28.611	52.808	63.247	1.00 72.74	B
ATOM	1794	CB	PHE	B	11	27.223	52.372	63.731	1.00 78.84	B
ATOM	1795	CG	PHE	B	11	26.595	53.303	64.734	1.00 78.84	B
ATOM	1796	CD1	PHE	B	11	26.622	54.678	64.544	1.00 78.84	B
ATOM	1797	CD2	PHE	B	11	25.941	52.795	65.860	1.00 78.84	B
ATOM	1798	CE1	PHE	B	11	26.005	55.533	65.461	1.00 78.84	B
ATOM	1799	CE2	PHE	B	11	25.321	53.640	66.783	1.00 78.84	B
ATOM	1800	CZ	PHE	B	11	25.352	55.010	66.584	1.00 78.84	B
ATOM	1801	C	PHE	B	11	29.637	52.713	64.373	1.00 72.74	B
ATOM	1802	O	PHE	B	11	29.281	52.462	65.514	1.00 72.74	B
ATOM	1803	N	THR	B	12	30.914	52.911	64.040	1.00 59.90	B
ATOM	1804	CA	THR	B	12	31.999	52.875	65.029	1.00 59.90	B
ATOM	1805	CB	THR	B	12	33.338	53.340	64.411	1.00100.07	B
ATOM	1806	OG1	THR	B	12	33.135	54.564	63.690	1.00100.07	B
ATOM	1807	CG2	THR	B	12	33.889	52.283	63.463	1.00100.07	B
ATOM	1808	C	THR	B	12	31.633	53.800	66.185	1.00 59.90	B
ATOM	1809	O	THR	B	12	31.427	54.996	65.986	1.00 59.90	B
ATOM	1810	N	ALA	B	13	31.547	53.251	67.391	1.00 48.11	B



ATOM	1811	CA	ALA	B	13	31.168	54.063	68.538	1.00	48.11	B
ATOM	1812	CB	ALA	B	13	29.736	53.737	68.962	1.00	30.65	B
ATOM	1813	C	ALA	B	13	32.093	53.927	69.730	1.00	48.11	B
ATOM	1814	O	ALA	B	13	31.844	53.126	70.634	1.00	48.11	B
ATOM	1815	N	THR	B	14	33.160	54.719	69.734	1.00	65.33	B
ATOM	1816	CA	THR	B	14	34.104	54.698	70.838	1.00	65.33	B
ATOM	1817	CB	THR	B	14	35.351	55.548	70.521	1.00100.07		B
ATOM	1818	OG1	THR	B	14	35.977	55.053	69.327	1.00100.07		B
ATOM	1819	CG2	THR	B	14	36.345	55.480	71.673	1.00100.07		B
ATOM	1820	C	THR	B	14	33.379	55.242	72.073	1.00	65.33	B
ATOM	1821	O	THR	B	14	33.225	56.451	72.243	1.00	65.33	B
ATOM	1822	N	THR	B	15	32.920	54.316	72.909	1.00100.01		B
ATOM	1823	CA	THR	B	15	32.182	54.596	74.137	1.00100.01		B
ATOM	1824	CB	THR	B	15	31.609	53.294	74.719	1.00100.07		B
ATOM	1825	OG1	THR	B	15	32.638	52.611	75.448	1.00100.07		B
ATOM	1826	CG2	THR	B	15	31.115	52.377	73.599	1.00100.07		B
ATOM	1827	C	THR	B	15	33.032	55.226	75.232	1.00100.01		B
ATOM	1828	O	THR	B	15	33.978	55.961	74.950	1.00100.01		B
ATOM	1829	N	GLN	B	16	32.689	54.900	76.482	1.00	99.07	B
ATOM	1830	CA	GLN	B	16	33.371	55.391	77.688	1.00	99.07	B
ATOM	1831	CB	GLN	B	16	33.434	56.926	77.678	1.00	91.47	B
ATOM	1832	CG	GLN	B	16	34.322	57.534	78.750	1.00	91.47	B
ATOM	1833	CD	GLN	B	16	35.695	56.888	78.811	1.00	91.47	B
ATOM	1834	OE1	GLN	B	16	36.428	56.856	77.822	1.00	91.47	B
ATOM	1835	NE2	GLN	B	16	36.049	56.369	79.980	1.00	91.47	B
ATOM	1836	C	GLN	B	16	32.578	54.891	78.905	1.00	99.07	B
ATOM	1837	O	GLN	B	16	31.914	53.853	78.821	1.00	99.07	B
ATOM	1838	N	GLY	B	17	32.662	55.606	80.029	1.00100.07		B
ATOM	1839	CA	GLY	B	17	31.908	55.232	81.220	1.00100.07		B
ATOM	1840	C	GLY	B	17	30.481	55.693	80.971	1.00100.07		B
ATOM	1841	O	GLY	B	17	29.639	54.897	80.556	1.00100.07		B
ATOM	1842	N	ASP	B	18	30.194	56.968	81.230	1.00	77.15	B
ATOM	1843	CA	ASP	B	18	28.868	57.503	80.932	1.00	77.15	B
ATOM	1844	CB	ASP	B	18	27.875	57.280	82.090	1.00100.07		B
ATOM	1845	CG	ASP	B	18	28.244	58.021	83.349	1.00100.07		B
ATOM	1846	OD1	ASP	B	18	29.429	57.976	83.735	1.00100.07		B
ATOM	1847	OD2	ASP	B	18	27.333	58.627	83.962	1.00100.07		B
ATOM	1848	C	ASP	B	18	28.890	58.957	80.473	1.00	77.15	B
ATOM	1849	O	ASP	B	18	28.073	59.786	80.870	1.00	77.15	B
ATOM	1850	N	HIS	B	19	29.848	59.231	79.596	1.00	59.01	B
ATOM	1851	CA	HIS	B	19	30.036	60.536	79.001	1.00	59.01	B
ATOM	1852	CB	HIS	B	19	30.554	61.546	80.031	1.00	99.93	B
ATOM	1853	CG	HIS	B	19	31.642	61.027	80.915	1.00	99.93	B
ATOM	1854	CD2	HIS	B	19	32.186	59.794	81.041	1.00	99.93	B
ATOM	1855	ND1	HIS	B	19	32.300	61.829	81.823	1.00	99.93	B
ATOM	1856	CE1	HIS	B	19	33.202	61.113	82.469	1.00	99.93	B
ATOM	1857	NE2	HIS	B	19	33.153	59.874	82.014	1.00	99.93	B
ATOM	1858	C	HIS	B	19	30.952	60.441	77.799	1.00	59.01	B
ATOM	1859	O	HIS	B	19	31.723	59.490	77.653	1.00	59.01	B
ATOM	1860	N	TYR	B	20	30.841	61.432	76.927	1.00	64.52	B
ATOM	1861	CA	TYR	B	20	31.639	61.483	75.712	1.00	64.52	B
ATOM	1862	CB	TYR	B	20	33.132	61.667	76.040	1.00	86.15	B
ATOM	1863	CG	TYR	B	20	33.940	62.278	74.909	1.00	86.15	B
ATOM	1864	CD1	TYR	B	20	35.331	62.327	74.965	1.00	86.15	B
ATOM	1865	CE1	TYR	B	20	36.076	62.865	73.911	1.00	86.15	B
ATOM	1866	CD2	TYR	B	20	33.313	62.790	73.773	1.00	86.15	B
ATOM	1867	CE2	TYR	B	20	34.046	63.325	72.724	1.00	86.15	B
ATOM	1868	CZ	TYR	B	20	35.420	63.359	72.794	1.00	86.15	B
ATOM	1869	OH	TYR	B	20	36.128	63.872	71.735	1.00	86.15	B
ATOM	1870	C	TYR	B	20	31.415	60.178	74.973	1.00	64.52	B
ATOM	1871	O	TYR	B	20	32.296	59.325	74.909	1.00	64.52	B
ATOM	1872	N	GLY	B	21	30.212	60.024	74.437	1.00	99.59	B
ATOM	1873	CA	GLY	B	21	29.896	58.823	73.700	1.00	99.59	B
ATOM	1874	C	GLY	B	21	30.171	59.065	72.238	1.00	99.59	B
ATOM	1875	O	GLY	B	21	29.258	59.179	71.429	1.00	99.59	B
ATOM	1876	N	GLU	B	22	31.444	59.186	71.901	1.00	60.24	B
ATOM	1877	CA	GLU	B	22	31.824	59.388	70.519	1.00	60.24	B
ATOM	1878	CB	GLU	B	22	33.345	59.257	70.402	1.00	99.88	B
ATOM	1879	CG	GLU	B	22	33.884	59.121	68.987	1.00	99.88	B
ATOM	1880	CD	GLU	B	22	33.951	57.676	68.499	1.00	99.88	B
ATOM	1881	OE1	GLU	B	22	32.894	57.011	68.410	1.00	99.88	B
ATOM	1882	OE2	GLU	B	22	35.074	57.206	68.195	1.00	99.88	B
ATOM	1883	C	GLU	B	22	31.118	58.294	69.716	1.00	60.24	B
ATOM	1884	O	GLU	B	22	31.180	57.111	70.060	1.00	60.24	B
ATOM	1885	N	PHE	B	23	30.427	58.703	68.661	1.00	68.91	B
ATOM	1886	CA	PHE	B	23	29.709	57.786	67.792	1.00	68.91	B
ATOM	1887	CB	PHE	B	23	28.222	57.955	68.023	1.00	73.38	B
ATOM	1888	CG	PHE	B	23	27.833	57.680	69.426	1.00	73.38	B
ATOM	1889	CD1	PHE	B	23	26.914	58.480	70.082	1.00	73.38	B
ATOM	1890	CD2	PHE	B	23	28.437	56.634	70.118	1.00	73.38	B
ATOM	1891	CE1	PHE	B	23	26.601	58.245	71.421	1.00	73.38	B
ATOM	1892	CE2	PHE	B	23	28.139	56.387	71.446	1.00	73.38	B
ATOM	1893	CZ	PHE	B	23	27.217	57.194	72.105	1.00	73.38	B
ATOM	1894	C	PHE	B	23	30.110	58.192	66.394	1.00	68.91	B



ATOM	1895	O	PHE	B	23	30.427	59.359	66.170	1.00	68.91	B
ATOM	1896	N	VAL	B	24	30.125	57.249	65.455	1.00	81.71	B
ATOM	1897	CA	VAL	B	24	30.531	57.594	64.095	1.00	81.71	B
ATOM	1898	CB	VAL	B	24	32.070	57.615	63.953	1.00	8.17	B
ATOM	1899	CG1	VAL	B	24	32.448	57.871	62.510	1.00	8.17	B
ATOM	1900	CG2	VAL	B	24	32.667	58.680	64.852	1.00	8.17	B
ATOM	1901	C	VAL	B	24	30.036	56.748	62.936	1.00	81.71	B
ATOM	1902	O	VAL	B	24	30.568	55.667	62.698	1.00	81.71	B
ATOM	1903	N	LEU	B	25	29.035	57.236	62.208	1.00	73.45	B
ATOM	1904	CA	LEU	B	25	28.584	56.505	61.036	1.00	73.45	B
ATOM	1905	CB	LEU	B	25	27.119	56.808	60.684	1.00	20.54	B
ATOM	1906	CG	LEU	B	25	26.676	58.027	59.875	1.00	20.54	B
ATOM	1907	CD1	LEU	B	25	27.419	58.135	58.550	1.00	20.54	B
ATOM	1908	CD2	LEU	B	25	25.182	57.890	59.639	1.00	20.54	B
ATOM	1909	C	LEU	B	25	29.557	57.067	60.007	1.00	73.45	B
ATOM	1910	O	LEU	B	25	29.912	58.241	60.086	1.00	73.45	B
ATOM	1911	N	GLU	B	26	29.986	56.257	59.044	1.00	100.07	B
ATOM	1912	CA	GLU	B	26	30.984	56.734	58.100	1.00	100.07	B
ATOM	1913	CB	GLU	B	26	32.048	55.648	57.958	1.00	99.35	B
ATOM	1914	CG	GLU	B	26	33.440	56.186	57.747	1.00	99.35	B
ATOM	1915	CD	GLU	B	26	34.499	55.165	58.101	1.00	99.35	B
ATOM	1916	OE1	GLU	B	26	34.482	54.054	57.519	1.00	99.35	B
ATOM	1917	OE2	GLU	B	26	35.348	55.473	58.967	1.00	99.35	B
ATOM	1918	C	GLU	B	26	30.568	57.311	56.738	1.00	100.07	B
ATOM	1919	O	GLU	B	26	30.080	58.440	56.690	1.00	100.07	B
ATOM	1920	N	PRO	B	27	30.744	56.575	55.619	1.00	70.02	B
ATOM	1921	CD	PRO	B	27	31.438	55.321	55.290	1.00	23.02	B
ATOM	1922	CA	PRO	B	27	30.323	57.235	54.379	1.00	70.02	B
ATOM	1923	CB	PRO	B	27	30.851	56.310	53.288	1.00	23.02	B
ATOM	1924	CG	PRO	B	27	32.009	55.647	53.931	1.00	23.02	B
ATOM	1925	C	PRO	B	27	28.837	57.482	54.213	1.00	70.02	B
ATOM	1926	O	PRO	B	27	28.011	56.617	54.484	1.00	70.02	B
ATOM	1927	N	LEU	B	28	28.520	58.683	53.755	1.00	44.22	B
ATOM	1928	CA	LEU	B	28	27.157	59.101	53.491	1.00	44.22	B
ATOM	1929	CB	LEU	B	28	26.538	59.786	54.702	1.00	59.23	B
ATOM	1930	CG	LEU	B	28	26.298	58.974	55.970	1.00	59.23	B
ATOM	1931	CD1	LEU	B	28	25.541	59.835	56.960	1.00	59.23	B
ATOM	1932	CD2	LEU	B	28	25.506	57.721	55.656	1.00	59.23	B
ATOM	1933	C	LEU	B	28	27.267	60.096	52.354	1.00	44.22	B
ATOM	1934	O	LEU	B	28	28.034	61.055	52.445	1.00	44.22	B
ATOM	1935	N	GLU	B	29	26.525	59.867	51.277	1.00	55.67	B
ATOM	1936	CA	GLU	B	29	26.566	60.777	50.138	1.00	55.67	B
ATOM	1937	CB	GLU	B	29	25.359	60.531	49.226	1.00	99.81	B
ATOM	1938	CG	GLU	B	29	25.318	61.360	47.942	1.00	99.81	B
ATOM	1939	CD	GLU	B	29	26.308	60.890	46.890	1.00	99.81	B
ATOM	1940	OE1	GLU	B	29	27.528	61.069	47.097	1.00	99.81	B
ATOM	1941	OE2	GLU	B	29	25.860	60.339	45.857	1.00	99.81	B
ATOM	1942	C	GLU	B	29	26.534	62.204	50.690	1.00	55.67	B
ATOM	1943	O	GLU	B	29	25.783	62.504	51.626	1.00	55.67	B
ATOM	1944	N	ARG	B	30	27.358	63.077	50.120	1.00	83.37	B
ATOM	1945	CA	ARG	B	30	27.434	64.451	50.593	1.00	83.37	B
ATOM	1946	CB	ARG	B	30	28.133	65.358	49.576	1.00	100.07	B
ATOM	1947	CG	ARG	B	30	27.367	65.502	48.289	1.00	100.07	B
ATOM	1948	CD	ARG	B	30	27.615	66.840	47.621	1.00	100.07	B
ATOM	1949	NE	ARG	B	30	26.938	66.895	46.326	1.00	100.07	B
ATOM	1950	CZ	ARG	B	30	26.924	67.957	45.531	1.00	100.07	B
ATOM	1951	NH1	ARG	B	30	27.547	69.067	45.901	1.00	100.07	B
ATOM	1952	NH2	ARG	B	30	26.304	67.901	44.360	1.00	100.07	B
ATOM	1953	C	ARG	B	30	26.059	65.018	50.892	1.00	83.37	B
ATOM	1954	O	ARG	B	30	25.145	64.948	50.067	1.00	83.37	B
ATOM	1955	N	GLY	B	31	25.910	65.559	52.094	1.00	49.44	B
ATOM	1956	CA	GLY	B	31	24.651	66.165	52.449	1.00	49.44	B
ATOM	1957	C	GLY	B	31	23.870	65.507	53.561	1.00	49.44	B
ATOM	1958	O	GLY	B	31	22.820	66.018	53.934	1.00	49.44	B
ATOM	1959	N	PHE	B	32	24.340	64.390	54.106	1.00	58.66	B
ATOM	1960	CA	PHE	B	32	23.569	63.761	55.172	1.00	58.66	B
ATOM	1961	CB	PHE	B	32	23.214	62.318	54.798	1.00	45.85	B
ATOM	1962	CG	PHE	B	32	22.292	62.218	53.610	1.00	45.85	B
ATOM	1963	CD1	PHE	B	32	21.055	62.856	53.619	1.00	45.85	B
ATOM	1964	CD2	PHE	B	32	22.681	61.542	52.457	1.00	45.85	B
ATOM	1965	CE1	PHE	B	32	20.220	62.831	52.489	1.00	45.85	B
ATOM	1966	CE2	PHE	B	32	21.849	61.512	51.322	1.00	45.85	B
ATOM	1967	CZ	PHE	B	32	20.618	62.160	51.342	1.00	45.85	B
ATOM	1968	C	PHE	B	32	24.227	63.814	56.532	1.00	58.66	B
ATOM	1969	O	PHE	B	32	23.565	63.645	57.549	1.00	58.66	B
ATOM	1970	N	GLY	B	33	25.529	64.054	56.556	1.00	34.05	B
ATOM	1971	CA	GLY	B	33	26.207	64.160	57.831	1.00	34.05	B
ATOM	1972	C	GLY	B	33	25.363	65.108	58.647	1.00	34.05	B
ATOM	1973	O	GLY	B	33	24.979	64.805	59.766	1.00	34.05	B
ATOM	1974	N	VAL	B	34	25.042	66.244	58.040	1.00	70.95	B
ATOM	1975	CA	VAL	B	34	24.234	67.296	58.651	1.00	70.95	B
ATOM	1976	CB	VAL	B	34	24.452	68.648	57.902	1.00	46.05	B
ATOM	1977	CG1	VAL	B	34	23.311	69.620	58.172	1.00	46.05	B
ATOM	1978	CG2	VAL	B	34	25.764	69.259	58.336	1.00	46.05	B



ATOM	2063	N	SER	B	46	17.246	68.415	73.737	1.00	100.07	B
ATOM	2064	CA	SER	B	46	15.826	68.592	74.033	1.00	100.07	B
ATOM	2065	CB	SER	B	46	15.059	68.930	72.750	1.00	84.56	B
ATOM	2066	OG	SER	B	46	15.629	70.035	72.075	1.00	84.56	B
ATOM	2067	C	SER	B	46	15.195	67.350	74.642	1.00	100.07	B
ATOM	2068	O	SER	B	46	15.648	66.813	75.657	1.00	100.07	B
ATOM	2069	N	SER	B	47	14.124	66.918	73.993	1.00	38.59	B
ATOM	2070	CA	SER	B	47	13.366	65.745	74.386	1.00	38.59	B
ATOM	2071	CB	SER	B	47	12.578	65.294	73.161	1.00	100.07	B
ATOM	2072	OG	SER	B	47	13.127	65.891	71.990	1.00	100.07	B
ATOM	2073	C	SER	B	47	14.209	64.584	74.939	1.00	38.59	B
ATOM	2074	O	SER	B	47	14.948	63.947	74.213	1.00	38.59	B
ATOM	2075	N	ILE	B	48	14.104	64.311	76.227	1.00	70.20	B
ATOM	2076	CA	ILE	B	48	14.852	63.212	76.811	1.00	70.20	B
ATOM	2077	CB	ILE	B	48	16.377	63.476	76.803	1.00	23.12	B
ATOM	2078	CG2	ILE	B	48	16.930	63.501	78.213	1.00	23.12	B
ATOM	2079	CG1	ILE	B	48	17.104	62.308	76.163	1.00	23.12	B
ATOM	2080	CD	ILE	B	48	16.633	61.975	74.779	1.00	23.12	B
ATOM	2081	C	ILE	B	48	14.374	63.060	78.238	1.00	70.20	B
ATOM	2082	O	ILE	B	48	13.969	64.031	78.877	1.00	70.20	B
ATOM	2083	N	PRO	B	49	14.377	61.829	78.748	1.00	58.07	B
ATOM	2084	CD	PRO	B	49	14.511	60.549	78.028	1.00	100.07	B
ATOM	2085	CA	PRO	B	49	13.933	61.621	80.122	1.00	58.07	B
ATOM	2086	CB	PRO	B	49	13.453	60.177	80.103	1.00	100.07	B
ATOM	2087	CG	PRO	B	49	14.412	59.536	79.140	1.00	100.07	B
ATOM	2088	C	PRO	B	49	15.115	61.844	81.055	1.00	58.07	B
ATOM	2089	O	PRO	B	49	16.239	61.457	80.733	1.00	58.07	B
ATOM	2090	N	GLY	B	50	14.860	62.482	82.195	1.00	100.07	B
ATOM	2091	CA	GLY	B	50	15.912	62.746	83.165	1.00	100.07	B
ATOM	2092	C	GLY	B	50	15.371	63.398	84.427	1.00	100.07	B
ATOM	2093	O	GLY	B	50	14.303	64.004	84.398	1.00	100.07	B
ATOM	2094	N	THR	B	51	16.092	63.283	85.538	1.00	100.07	B
ATOM	2095	CA	THR	B	51	15.631	63.887	86.784	1.00	100.07	B
ATOM	2096	CB	THR	B	51	15.778	62.923	87.966	1.00	84.35	B
ATOM	2097	OG1	THR	B	51	17.167	62.773	88.297	1.00	84.35	B
ATOM	2098	CG2	THR	B	51	15.193	61.575	87.611	1.00	84.35	B
ATOM	2099	C	THR	B	51	16.406	65.153	87.119	1.00	100.07	B
ATOM	2100	O	THR	B	51	17.380	65.481	86.440	1.00	100.07	B
ATOM	2101	N	ALA	B	52	15.978	65.854	88.170	1.00	100.07	B
ATOM	2102	CA	ALA	B	52	16.643	67.090	88.593	1.00	100.07	B
ATOM	2103	CB	ALA	B	52	16.751	68.046	87.397	1.00	8	



ATOM	1979	C	VAL	B	34	22.737	67.005	58.676	1.00	70.95	B
ATOM	1980	O	VAL	B	34	22.072	67.333	59.657	1.00	70.95	B
ATOM	1981	N	THR	B	35	22.202	66.411	57.609	1.00	92.67	B
ATOM	1982	CA	THR	B	35	20.769	66.136	57.569	1.00	92.67	B
ATOM	1983	CB	THR	B	35	20.329	65.470	56.254	1.00	31.42	B
ATOM	1984	OG1	THR	B	35	20.804	66.240	55.146	1.00	31.42	B
ATOM	1985	CG2	THR	B	35	18.800	65.441	56.171	1.00	31.42	B
ATOM	1986	C	THR	B	35	20.357	65.284	58.756	1.00	92.67	B
ATOM	1987	O	THR	B	35	19.205	65.294	59.170	1.00	92.67	B
ATOM	1988	N	LEU	B	36	21.306	64.533	59.290	1.00	29.62	B
ATOM	1989	CA	LEU	B	36	21.080	63.741	60.496	1.00	29.62	B
ATOM	1990	CB	LEU	B	36	21.480	62.274	60.310	1.00	35.43	B
ATOM	1991	CG	LEU	B	36	20.969	61.455	59.122	1.00	35.43	B
ATOM	1992	CD1	LEU	B	36	21.285	59.989	59.391	1.00	35.43	B
ATOM	1993	CD2	LEU	B	36	19.476	61.644	58.921	1.00	35.43	B
ATOM	1994	C	LEU	B	36	22.121	64.420	61.369	1.00	29.62	B
ATOM	1995	O	LEU	B	36	22.434	65.583	61.138	1.00	29.62	B
ATOM	1996	N	GLY	B	37	22.685	63.722	62.342	1.00	100.07	B
ATOM	1997	CA	GLY	B	37	23.714	64.353	63.147	1.00	100.07	B
ATOM	1998	C	GLY	B	37	23.376	65.699	63.763	1.00	100.07	B
ATOM	1999	O	GLY	B	37	24.056	66.134	64.688	1.00	100.07	B
ATOM	2000	N	ASN	B	38	22.349	66.369	63.252	1.00	74.19	B
ATOM	2001	CA	ASN	B	38	21.927	67.656	63.792	1.00	74.19	B
ATOM	2002	CB	ASN	B	38	21.734	68.669	62.668	1.00	66.42	B
ATOM	2003	CG	ASN	B	38	21.004	69.900	63.128	1.00	66.42	B
ATOM	2004	OD1	ASN	B	38	19.779	69.895	63.254	1.00	66.42	B
ATOM	2005	ND2	ASN	B	38	21.748	70.962	63.399	1.00	66.42	B
ATOM	2006	C	ASN	B	38	20.641	67.489	64.622	1.00	74.19	B
ATOM	2007	O	ASN	B	38	20.634	67.848	65.804	1.00	74.19	B
ATOM	2008	N	PRO	B	39	19.540	66.953	64.023	1.00	63.64	B
ATOM	2009	CD	PRO	B	39	19.280	66.698	62.591	1.00	38.03	B
ATOM	2010	CA	PRO	B	39	18.300	66.762	64.787	1.00	63.64	B
ATOM	2011	CB	PRO	B	39	17.389	66.067	63.778	1.00	38.03	B
ATOM	2012	CG	PRO	B	39	17.756	66.727	62.514	1.00	38.03	B
ATOM	2013	C	PRO	B	39	18.553	65.901	66.036	1.00	63.64	B
ATOM	2014	O	PRO	B	39	17.856	66.026	67.045	1.00	63.64	B
ATOM	2015	N	LEU	B	40	19.556	65.029	65.960	1.00	37.49	B
ATOM	2016	CA	LEU	B	40	19.912	64.169	67.088	1.00	37.49	B
ATOM	2017	CB	LEU	B	40	20.729	62.953	66.623	1.00	37.14	B
ATOM	2018	CG	LEU	B	40	20.066	61.926	65.699	1.00	37.14	B
ATOM	2019	CD1	LEU	B	40	19.043	61.090	66.451	1.00	37.14	B
ATOM	2020	CD2	LEU	B	40	19.425	62.664	64.524	1.00	37.14	B
ATOM	2021	C	LEU	B	40	20.711	64.951	68.131	1.00	37.49	B
ATOM	2022	O	LEU	B	40	21.082	64.419	69.179	1.00	37.49	B
ATOM	2023	N	ALA	B	41	20.997	66.209	67.819	1.00	46.88	B
ATOM	2024	CA	ALA	B	41	21.713	67.088	68.732	1.00	46.88	B
ATOM	2025	CB	ALA	B	41	22.657	68.005	67.956	1.00	38.70	B
ATOM	2026	C	ALA	B	41	20.575	67.892	69.333	1.00	46.88	B
ATOM	2027	O	ALA	B	41	20.412	67.984	70.551	1.00	46.88	B
ATOM	2028	N	ARG	B	42	19.771	68.452	68.443	1.00	83.52	B
ATOM	2029	CA	ARG	B	42	18.626	69.239	68.838	1.00	83.52	B
ATOM	2030	CB	ARG	B	42	17.852	69.664	67.588	1.00	47.50	B
ATOM	2031	CG	ARG	B	42	16.967	70.854	67.795	1.00	47.50	B
ATOM	2032	CD	ARG	B	42	16.745	71.594	66.505	1.00	47.50	B
ATOM	2033	NE	ARG	B	42	16.086	72.869	66.766	1.00	47.50	B
ATOM	2034	CZ	ARG	B	42	16.180	73.943	65.982	1.00	47.50	B
ATOM	2035	NH1	ARG	B	42	16.915	73.896	64.872	1.00	47.50	B
ATOM	2036	NH2	ARG	B	42	15.538	75.068	66.304	1.00	47.50	B
ATOM	2037	C	ARG	B	42	17.763	68.393	69.767	1.00	83.52	B
ATOM	2038	O	ARG	B	42	17.449	68.810	70.880	1.00	83.52	B
ATOM	2039	N	ILE	B	43	17.402	67.193	69.323	1.00	45.38	B
ATOM	2040	CA	ILE	B	43	16.582	66.310	70.144	1.00	45.38	B
ATOM	2041	CB	ILE	B	43	16.111	65.095	69.327	1.00	28.38	B
ATOM	2042	CG2	ILE	B	43	15.238	64.199	70.162	1.00	28.38	B
ATOM	2043	CG1	ILE	B	43	15.302	65.586	68.134	1.00	28.38	B
ATOM	2044	CD	ILE	B	43	14.384	66.738	68.483	1.00	28.38	B
ATOM	2045	C	ILE	B	43	17.365	65.859	71.362	1.00	45.38	B
ATOM	2046	O	ILE	B	43	16.832	65.822	72.461	1.00	45.38	B
ATOM	2047	N	LEU	B	44	18.641	65.546	71.159	1.00	45.50	B
ATOM	2048	CA	LEU	B	44	19.514	65.096	72.235	1.00	45.50	B
ATOM	2049	CB	LEU	B	44	20.947	64.963	71.711	1.00	98.53	B
ATOM	2050	CG	LEU	B	44	21.892	63.909	72.293	1.00	98.53	B
ATOM	2051	CD1	LEU	B	44	21.212	63.119	73.402	1.00	98.53	B
ATOM	2052	CD2	LEU	B	44	22.317	62.980	71.177	1.00	98.53	B
ATOM	2053	C	LEU	B	44	19.486	66.066	73.405	1.00	45.50	B
ATOM	2054	O	LEU	B	44	19.348	65.647	74.557	1.00	45.50	B
ATOM	2055	N	LEU	B	45	19.627	67.359	73.102	1.00	99.98	B
ATOM	2056	CA	LEU	B	45	19.623	68.414	74.119	1.00	99.98	B
ATOM	2057	CB	LEU	B	45	20.164	69.734	73.546	1.00	40.52	B
ATOM	2058	CG	LEU	B	45	21.635	69.861	73.113	1.00	40.52	B
ATOM	2059	CD1	LEU	B	45	21.895	71.293	72.646	1.00	40.52	B
ATOM	2060	CD2	LEU	B	45	22.579	69.500	74.272	1.00	40.52	B
ATOM	2061	C	LEU	B	45	18.213	68.641	74.624	1.00	99.98	B
ATOM	2062	O	LEU	B	45	18.015	69.006	75.781	1.00	99.98	B



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ATOM	2147	CB	ILE	B	58	17.664	75.444	103.525	1.00100.07	B
ATOM	2148	CG2	ILE	B	58	18.924	75.227	104.360	1.00100.07	B
ATOM	2149	CG1	ILE	B	58	17.849	74.861	102.116	1.00100.07	B
ATOM	2150	CD	ILE	B	58	16.813	75.317	101.116	1.00100.07	B
ATOM	2151	C	ILE	B	58	16.277	75.366	105.619	1.00100.07	B
ATOM	2152	O	ILE	B	58	17.025	76.261	106.026	1.00100.07	B
ATOM	2153	N	GLU	B	59	15.304	74.831	106.352	1.00100.07	B
ATOM	2154	CA	GLU	B	59	14.995	75.268	107.709	1.00100.07	B
ATOM	2155	CB	GLU	B	59	15.542	74.270	108.729	1.00100.07	B
ATOM	2156	CG	GLU	B	59	15.261	74.684	110.174	1.00100.07	B
ATOM	2157	CD	GLU	B	59	13.787	75.006	110.432	1.00100.07	B
ATOM	2158	OE1	GLU	B	59	13.222	75.870	109.724	1.00100.07	B
ATOM	2159	OE2	GLU	B	59	13.195	74.399	111.353	1.00100.07	B
ATOM	2160	C	GLU	B	59	15.462	76.678	108.078	1.00100.07	B
ATOM	2161	O	GLU	B	59	16.634	76.883	108.402	1.00100.07	B
ATOM	2162	N	ASP	B	60	14.522	77.626	108.014	1.00100.07	B
ATOM	2163	CA	ASP	B	60	14.697	79.051	108.350	1.00100.07	B
ATOM	2164	CB	ASP	B	60	16.106	79.341	108.903	1.00100.07	B
ATOM	2165	CG	ASP	B	60	16.198	79.114	110.421	1.00100.07	B
ATOM	2166	OD1	ASP	B	60	15.478	79.798	111.181	1.00100.07	B
ATOM	2167	OD2	ASP	B	60	16.987	78.252	110.858	1.00100.07	B
ATOM	2168	C	ASP	B	60	14.314	80.089	107.269	1.00100.07	B
ATOM	2169	O	ASP	B	60	13.188	80.055	106.757	1.00100.07	B
ATOM	2170	N	VAL	B	61	15.224	81.003	106.922	1.00 30.98	B
ATOM	2171	CA	VAL	B	61	14.915	82.070	105.954	1.00 30.98	B
ATOM	2172	CB	VAL	B	61	16.120	83.004	105.737	1.00 99.92	B
ATOM	2173	CG1	VAL	B	61	15.640	84.320	105.139	1.00 99.92	B
ATOM	2174	CG2	VAL	B	61	16.850	83.236	107.052	1.00 99.92	B
ATOM	2175	C	VAL	B	61	14.423	81.641	104.572	1.00 30.98	B
ATOM	2176	O	VAL	B	61	14.744	80.556	104.077	1.00 30.98	B
ATOM	2177	N	LEU	B	62	13.647	82.522	103.949	1.00 90.28	B
ATOM	2178	CA	LEU	B	62	13.080	82.253	102.636	1.00 90.28	B
ATOM	2179	CB	LEU	B	62	11.783	83.057	102.446	1.00100.07	B
ATOM	2180	CG	LEU	B	62	11.089	83.054	101.074	1.00100.07	B
ATOM	2181	CD1	LEU	B	62	10.931	81.636	100.557	1.00100.07	B
ATOM	2182	CD2	LEU	B	62	9.741	83.742	101.187	1.00100.07	B
ATOM	2183	C	LEU	B	62	14.028	82.520	101.470	1.00 90.28	B
ATOM	2184	O	LEU	B	62	15.025	81.821	101.302	1.00 90.28	B
ATOM	2185	N	HIS	B	63	13.707	83.538	100.676	1.00 50.34	B
ATOM	2186	CA	HIS	B	63	14.475	83.909	99.487	1.00 50.34	B
ATOM	2187	CB	HIS	B	63	14.419	85.434	99.257	1.00100.07	B
ATOM	2188	CG	HIS	B	63	15.116	86.251	100.305	1.00100.07	B
ATOM	2189	CD2	HIS	B	63	16.013	87.260	100.193	1.00100.07	B
ATOM	2190	ND1	HIS	B	63	14.862	86.114	101.653	1.00100.07	B
ATOM	2191	CE1	HIS	B	63	15.571	87.004	102.326	1.00100.07	B
ATOM	2192	NE2	HIS	B	63	16.278	87.712	101.463	1.00100.07	B
ATOM	2193	C	HIS	B	63	15.923	83.435	99.419	1.00 50.34	B
ATOM	2194	O	HIS	B	63	16.675	83.534	100.391	1.00 50.34	B
ATOM	2195	N	GLU	B	64	16.304	82.921	98.252	1.00 64.80	B
ATOM	2196	CA	GLU	B	64	17.659	82.421	98.020	1.00 64.80	B
ATOM	2197	CB	GLU	B	64	17.907	82.200	96.523	1.00100.07	B
ATOM	2198	CG	GLU	B	64	19.341	81.801	96.198	1.00100.07	B
ATOM	2199	CD	GLU	B	64	19.621	81.714	94.707	1.00100.07	B
ATOM	2200	OE1	GLU	B	64	19.506	82.748	94.012	1.00100.07	B
ATOM	2201	OE2	GLU	B	64	19.962	80.608	94.231	1.00100.07	B
ATOM	2202	C	GLU	B	64	18.719	83.380	98.549	1.00 64.80	B
ATOM	2203	O	GLU	B	64	19.885	83.022	98.691	1.00 64.80	B
ATOM	2204	N	PHE	B	65	18.291	84.601	98.839	1.00 78.74	B
ATOM	2205	CA	PHE	B	65	19.187	85.634	99.318	1.00 78.74	B
ATOM	2206	CB	PHE	B	65	18.838	86.964	98.639	1.00100.07	B
ATOM	2207	CG	PHE	B	65	18.214	86.807	97.268	1.00100.07	B
ATOM	2208	CD1	PHE	B	65	16.855	86.496	97.136	1.00100.07	B
ATOM	2209	CD2	PHE	B	65	18.983	86.962	96.111	1.00100.07	B
ATOM	2210	CE1	PHE	B	65	16.272	86.342	95.871	1.00100.07	B
ATOM	2211	CE2	PHE	B	65	18.412	86.809	94.840	1.00100.07	B
ATOM	2212	CZ	PHE	B	65	17.057	86.499	94.719	1.00100.07	B
ATOM	2213	C	PHE	B	65	19.125	85.784	100.833	1.00 78.74	B
ATOM	2214	O	PHE	B	65	18.567	86.748	101.355	1.00 78.74	B
ATOM	2215	N	SER	B	66	19.706	84.821	101.535	1.00100.07	B
ATOM	2216	CA	SER	B	66	19.735	84.855	102.988	1.00100.07	B
ATOM	2217	CB	SER	B	66	18.663	83.929	103.558	1.00100.07	B
ATOM	2218	OG	SER	B	66	17.381	84.320	103.099	1.00100.07	B
ATOM	2219	C	SER	B	66	21.116	84.422	103.437	1.00100.07	B
ATOM	2220	O	SER	B	66	22.079	84.571	102.682	1.00100.07	B
ATOM	2221	N	THR	B	67	21.220	83.901	104.658	1.00100.07	B
ATOM	2222	CA	THR	B	67	22.505	83.430	105.179	1.00100.07	B
ATOM	2223	CB	THR	B	67	23.479	84.621	105.500	1.00100.07	B
ATOM	2224	OG1	THR	B	67	23.948	85.214	104.280	1.00100.07	B
ATOM	2225	CG2	THR	B	67	24.689	84.132	106.301	1.00100.07	B
ATOM	2226	C	THR	B	67	22.356	82.572	106.434	1.00100.07	B
ATOM	2227	O	THR	B	67	22.077	83.079	107.524	1.00100.07	B
ATOM	2228	N	ILE	B	68	22.525	81.265	106.270	1.00 43.12	B
ATOM	2229	CA	ILE	B	68	22.460	80.366	107.405	1.00 43.12	B
ATOM	2230	CB	ILE	B	68	22.307	78.888	106.978	1.00 99.22	B



ATOM	2231	CG2	ILE	B	68	20.840	78.547	106.831	1.00	99.22	B
ATOM	2232	CG1	ILE	B	68	23.070	78.624	105.675	1.00	99.22	B
ATOM	2233	CD	ILE	B	68	24.567	78.813	105.764	1.00	99.22	B
ATOM	2234	C	ILE	B	68	23.782	80.530	108.144	1.00	43.12	B
ATOM	2235	O	ILE	B	68	24.797	80.913	107.551	1.00	43.12	B
ATOM	2236	N	PRO	B	69	23.774	80.285	109.459	1.00	70.41	B
ATOM	2237	CD	PRO	B	69	22.564	80.388	110.294	1.00	100.07	B
ATOM	2238	CA	PRO	B	69	24.979	80.397	110.284	1.00	70.41	B
ATOM	2239	CB	PRO	B	69	24.468	81.105	111.526	1.00	100.07	B
ATOM	2240	CG	PRO	B	69	23.140	80.455	111.706	1.00	100.07	B
ATOM	2241	C	PRO	B	69	25.594	79.023	110.592	1.00	70.41	B
ATOM	2242	O	PRO	B	69	24.975	77.974	110.366	1.00	70.41	B
ATOM	2243	N	GLY	B	70	26.818	79.039	111.105	1.00	91.68	B
ATOM	2244	CA	GLY	B	70	27.495	77.799	111.420	1.00	91.68	B
ATOM	2245	C	GLY	B	70	27.838	77.080	110.139	1.00	91.68	B
ATOM	2246	O	GLY	B	70	28.435	76.008	110.162	1.00	91.68	B
ATOM	2247	N	VAL	B	71	27.450	77.687	109.019	1.00	100.07	B
ATOM	2248	CA	VAL	B	71	27.707	77.141	107.691	1.00	100.07	B
ATOM	2249	CB	VAL	B	71	26.416	76.679	107.017	1.00	99.79	B
ATOM	2250	CG1	VAL	B	71	26.748	75.750	105.869	1.00	99.79	B
ATOM	2251	CG2	VAL	B	71	25.504	76.016	108.029	1.00	99.79	B
ATOM	2252	C	VAL	B	71	28.334	78.227	106.828	1.00	100.07	B
ATOM	2253	O	VAL	B	71	27.660	79.177	106.425	1.00	100.07	B
ATOM	2254	N	LYS	B	72	29.623	78.074	106.543	1.00	92.37	B
ATOM	2255	CA	LYS	B	72	30.364	79.052	105.756	1.00	92.37	B
ATOM	2256	CB	LYS	B	72	31.840	78.655	105.695	1.00	99.35	B
ATOM	2257	CG	LYS	B	72	32.502	78.707	107.057	1.00	99.35	B
ATOM	2258	CD	LYS	B	72	32.255	80.071	107.708	1.00	99.35	B
ATOM	2259	CE	LYS	B	72	32.632	80.090	109.189	1.00	99.35	B
ATOM	2260	NZ	LYS	B	72	32.395	81.428	109.816	1.00	99.35	B
ATOM	2261	C	LYS	B	72	29.819	79.297	104.355	1.00	92.37	B
ATOM	2262	O	LYS	B	72	29.843	80.421	103.854	1.00	92.37	B
ATOM	2263	N	GLU	B	73	29.315	78.250	103.725	1.00	76.40	B
ATOM	2264	CA	GLU	B	73	28.780	78.391	102.392	1.00	76.40	B
ATOM	2265	CB	GLU	B	73	28.687	77.015	101.766	1.00	93.16	B
ATOM	2266	CG	GLU	B	73	30.060	76.455	101.540	1.00	93.16	B
ATOM	2267	CD	GLU	B	73	30.054	74.997	101.206	1.00	93.16	B
ATOM	2268	OE1	GLU	B	73	29.239	74.575	100.365	1.00	93.16	B
ATOM	2269	OE2	GLU	B	73	30.882	74.271	101.778	1.00	93.16	B
ATOM	2270	C	GLU	B	73	27.436	79.085	102.413	1.00	76.40	B
ATOM	2271	O	GLU	B	73	26.526	78.645	103.098	1.00	76.40	B
ATOM	2272	N	ASP	B	74	27.318	80.181	101.671	1.00	37.10	B
ATOM	2273	CA	ASP	B	74	26.066	80.938	101.609	1.00	37.10	B
ATOM	2274	CB	ASP	B	74	26.264	82.215	100.798	1.00	88.96	B
ATOM	2275	CG	ASP	B	74	25.746	82.082	99.380	1.00	88.96	B
ATOM	2276	OD1	ASP	B	74	26.090	81.086	98.716	1.00	88.96	B
ATOM	2277	OD2	ASP	B	74	24.994	82.970	98.931	1.00	88.96	B
ATOM	2278	C	ASP	B	74	24.929	80.140	100.973	1.00	37.10	B
ATOM	2279	O	ASP	B	74	25.138	79.040	100.467	1.00	37.10	B
ATOM	2280	N	VAL	B	75	23.725	80.704	100.994	1.00	45.70	B
ATOM	2281	CA	VAL	B	75	22.567	80.056	100.376	1.00	45.70	B
ATOM	2282	CB	VAL	B	75	21.300	80.980	100.389	1.00	55.69	B
ATOM	2283	CG1	VAL	B	75	20.453	80.723	101.619	1.00	55.69	B
ATOM	2284	CG2	VAL	B	75	21.726	82.439	100.351	1.00	55.69	B
ATOM	2285	C	VAL	B	75	22.914	79.792	98.913	1.00	45.70	B
ATOM	2286	O	VAL	B	75	23.454	78.745	98.561	1.00	45.70	B
ATOM	2287	N	VAL	B	76	22.597	80.776	98.080	1.00	63.40	B
ATOM	2288	CA	VAL	B	76	22.824	80.726	96.645	1.00	63.40	B
ATOM	2289	CB	VAL	B	76	23.401	82.055	96.140	1.00	99.98	B
ATOM	2290	CG1	VAL	B	76	23.499	82.035	94.625	1.00	99.98	B
ATOM	2291	CG2	VAL	B	76	22.525	83.203	96.606	1.00	99.98	B
ATOM	2292	C	VAL	B	76	23.729	79.607	96.153	1.00	63.40	B
ATOM	2293	O	VAL	B	76	23.320	78.818	95.302	1.00	63.40	B
ATOM	2294	N	GLU	B	77	24.952	79.525	96.674	1.00	65.02	B
ATOM	2295	CA	GLU	B	77	25.864	78.483	96.209	1.00	65.02	B
ATOM	2296	CB	GLU	B	77	27.284	78.671	96.749	1.00	88.18	B
ATOM	2297	CG	GLU	B	77	28.295	77.797	96.008	1.00	88.18	B
ATOM	2298	CD	GLU	B	77	29.653	78.458	95.826	1.00	88.18	B
ATOM	2299	OE1	GLU	B	77	30.512	78.309	96.719	1.00	88.18	B
ATOM	2300	OE2	GLU	B	77	29.860	79.132	94.791	1.00	88.18	B
ATOM	2301	C	GLU	B	77	25.376	77.094	96.551	1.00	65.02	B
ATOM	2302	O	GLU	B	77	25.518	76.174	95.751	1.00	65.02	B
ATOM	2303	N	ILE	B	78	24.814	76.918	97.738	1.00	50.01	B
ATOM	2304	CA	ILE	B	78	24.287	75.608	98.061	1.00	50.01	B
ATOM	2305	CB	ILE	B	78	23.658	75.562	99.460	1.00	60.32	B
ATOM	2306	CG2	ILE	B	78	22.766	74.349	99.585	1.00	60.32	B
ATOM	2307	CG1	ILE	B	78	24.772	75.496	100.511	1.00	60.32	B
ATOM	2308	CD	ILE	B	78	24.294	75.467	101.944	1.00	60.32	B
ATOM	2309	C	ILE	B	78	23.248	75.341	96.983	1.00	50.01	B
ATOM	2310	O	ILE	B	78	23.340	74.344	96.266	1.00	50.01	B
ATOM	2311	N	ILE	B	79	22.291	76.259	96.847	1.00	57.29	B
ATOM	2312	CA	ILE	B	79	21.243	76.146	95.831	1.00	57.29	B
ATOM	2313	CB	ILE	B	79	20.613	77.521	95.478	1.00	74.38	B
ATOM	2314	CG2	ILE	B	79	19.882	77.435	94.140	1.00	74.38	B



ATOM	2315	CG1	ILE	B	79	19.638	77.959	96.577	1.00	74.38	B
ATOM	2316	CD	ILE	B	79	20.258	78.119	97.955	1.00	74.38	B
ATOM	2317	C	ILE	B	79	21.870	75.589	94.571	1.00	57.29	B
ATOM	2318	O	ILE	B	79	21.400	74.600	94.018	1.00	57.29	B
ATOM	2319	N	LEU	B	80	22.940	76.230	94.121	1.00	99.36	B
ATOM	2320	CA	LEU	B	80	23.629	75.777	92.928	1.00	99.36	B
ATOM	2321	CB	LEU	B	80	24.823	76.671	92.628	1.00	53.04	B
ATOM	2322	CG	LEU	B	80	24.414	78.118	92.392	1.00	53.04	B
ATOM	2323	CD1	LEU	B	80	25.616	78.903	91.898	1.00	53.04	B
ATOM	2324	CD2	LEU	B	80	23.278	78.168	91.373	1.00	53.04	B
ATOM	2325	C	LEU	B	80	24.087	74.342	93.115	1.00	99.36	B
ATOM	2326	O	LEU	B	80	23.738	73.467	92.325	1.00	99.36	B
ATOM	2327	N	ASN	B	81	24.867	74.104	94.164	1.00	53.66	B
ATOM	2328	CA	ASN	B	81	25.363	72.770	94.451	1.00	53.66	B
ATOM	2329	CB	ASN	B	81	25.774	72.670	95.909	1.00	46.42	B
ATOM	2330	CG	ASN	B	81	27.002	73.492	96.221	1.00	46.42	B
ATOM	2331	OD1	ASN	B	81	28.100	73.187	95.748	1.00	46.42	B
ATOM	2332	ND2	ASN	B	81	26.829	74.546	97.022	1.00	46.42	B
ATOM	2333	C	ASN	B	81	24.252	71.775	94.177	1.00	53.66	B
ATOM	2334	O	ASN	B	81	24.300	71.013	93.211	1.00	53.66	B
ATOM	2335	N	LEU	B	82	23.235	71.798	95.024	1.00	89.22	B
ATOM	2336	CA	LEU	B	82	22.120	70.890	94.851	1.00	89.22	B
ATOM	2337	CB	LEU	B	82	20.923	71.322	95.691	1.00	100.07	B
ATOM	2338	CG	LEU	B	82	21.135	71.451	97.195	1.00	100.07	B
ATOM	2339	CD1	LEU	B	82	19.782	71.769	97.825	1.00	100.07	B
ATOM	2340	CD2	LEU	B	82	21.743	70.163	97.782	1.00	100.07	B
ATOM	2341	C	LEU	B	82	21.690	70.839	93.397	1.00	89.22	B
ATOM	2342	O	LEU	B	82	21.331	69.778	92.889	1.00	89.22	B
ATOM	2343	N	LYS	B	83	21.739	71.989	92.730	1.00	68.47	B
ATOM	2344	CA	LYS	B	83	21.317	72.079	91.340	1.00	68.47	B
ATOM	2345	CB	LYS	B	83	21.372	73.532	90.844	1.00	56.25	B
ATOM	2346	CG	LYS	B	83	20.603	73.751	89.557	1.00	56.25	B
ATOM	2347	CD	LYS	B	83	19.744	75.012	89.581	1.00	56.25	B
ATOM	2348	CE	LYS	B	83	20.558	76.290	89.398	1.00	56.25	B
ATOM	2349	NZ	LYS	B	83	19.686	77.513	89.264	1.00	56.25	B
ATOM	2350	C	LYS	B	83	22.146	71.182	90.444	1.00	68.47	B
ATOM	2351	O	LYS	B	83	21.905	71.096	89.239	1.00	68.47	B
ATOM	2352	N	GLU	B	84	23.114	70.496	91.039	1.00	76.12	B
ATOM	2353	CA	GLU	B	84	23.958	69.602	90.271	1.00	76.12	B
ATOM	2354	CB	GLU	B	84	25.357	70.194	90.136	1.00	90.31	B
ATOM	2355	CG	GLU	B	84	26.220	69.540	89.074	1.00	90.31	B
ATOM	2356	CD	GLU	B	84	27.502	70.312	88.847	1.00	90.31	B
ATOM	2357	OE1	GLU	B	84	28.140	70.682	89.851	1.00	90.31	B
ATOM	2358	OE2	GLU	B	84	27.873	70.551	87.678	1.00	90.31	B
ATOM	2359	C	GLU	B	84	24.028	68.227	90.910	1.00	76.12	B
ATOM	2360	O	GLU	B	84	24.938	67.456	90.625	1.00	76.12	B
ATOM	2361	N	LEU	B	85	23.083	67.921	91.793	1.00	100.07	B
ATOM	2362	CA	LEU	B	85	23.062	66.596	92.395	1.00	100.07	B
ATOM	2363	CB	LEU	B	85	22.049	66.515	93.537	1.00	57.77	B
ATOM	2364	CG	LEU	B	85	21.985	65.124	94.184	1.00	57.77	B
ATOM	2365	CD1	LEU	B	85	23.352	64.756	94.747	1.00	57.77	B
ATOM	2366	CD2	LEU	B	85	20.930	65.088	95.281	1.00	57.77	B
ATOM	2367	C	LEU	B	85	22.615	65.708	91.241	1.00	100.07	B
ATOM	2368	O	LEU	B	85	22.203	66.224	90.202	1.00	100.07	B
ATOM	2369	N	VAL	B	86	22.697	64.390	91.397	1.00	99.56	B
ATOM	2370	CA	VAL	B	86	22.271	63.486	90.325	1.00	99.56	B
ATOM	2371	CB	VAL	B	86	23.481	62.905	89.573	1.00	42.86	B
ATOM	2372	CG1	VAL	B	86	23.065	62.469	88.177	1.00	42.86	B
ATOM	2373	CG2	VAL	B	86	24.590	63.924	89.513	1.00	42.86	B
ATOM	2374	C	VAL	B	86	21.470	62.313	90.892	1.00	99.56	B
ATOM	2375	O	VAL	B	86	22.038	61.339	91.398	1.00	99.56	B
ATOM	2376	N	VAL	B	87	20.149	62.411	90.794	1.00	100.07	B
ATOM	2377	CA	VAL	B	87	19.269	61.376	91.306	1.00	100.07	B
ATOM	2378	CB	VAL	B	87	17.961	61.986	91.861	1.00	99.71	B
ATOM	2379	CG1	VAL	B	87	17.043	60.886	92.365	1.00	99.71	B
ATOM	2380	CG2	VAL	B	87	18.275	62.956	92.985	1.00	99.71	B
ATOM	2381	C	VAL	B	87	18.915	60.363	90.238	1.00	100.07	B
ATOM	2382	O	VAL	B	87	18.779	60.710	89.061	1.00	100.07	B
ATOM	2383	N	ARG	B	88	18.775	59.109	90.665	1.00	100.07	B
ATOM	2384	CA	ARG	B	88	18.416	58.008	89.775	1.00	100.07	B
ATOM	2385	CB	ARG	B	88	19.603	57.072	89.570	1.00	100.07	B
ATOM	2386	CG	ARG	B	88	19.301	55.915	88.648	1.00	100.07	B
ATOM	2387	CD	ARG	B	88	20.429	54.931	88.698	1.00	100.07	B
ATOM	2388	NE	ARG	B	88	20.029	53.615	88.221	1.00	100.07	B
ATOM	2389	CZ	ARG	B	88	20.732	52.509	88.443	1.00	100.07	B
ATOM	2390	NH1	ARG	B	88	21.867	52.577	89.135	1.00	100.07	B
ATOM	2391	NH2	ARG	B	88	20.303	51.335	87.984	1.00	100.07	B
ATOM	2392	C	ARG	B	88	17.236	57.222	90.335	1.00	100.07	B
ATOM	2393	O	ARG	B	88	17.420	56.208	91.014	1.00	100.07	B
ATOM	2394	N	PHE	B	89	16.027	57.704	90.050	1.00	100.07	B
ATOM	2395	CA	PHE	B	89	14.810	57.045	90.506	1.00	100.07	B
ATOM	2396	CB	PHE	B	89	13.577	57.694	89.876	1.00	72.11	B
ATOM	2397	CG	PHE	B	89	13.375	59.130	90.269	1.00	72.11	B
ATOM	2398	CD1	PHE	B	89	13.865	59.613	91.484	1.00	72.11	B



ATOM	2399	CD2	PHE	B	89	12.631	59.984	89.458	1.00	72.11
ATOM	2400	CE1	PHE	B	89	13.609	60.920	91.884	1.00	72.11
ATOM	2401	CE2	PHE	B	89	12.369	61.296	89.849	1.00	72.11
ATOM	2402	CZ	PHE	B	89	12.856	61.764	91.062	1.00	72.11
ATOM	2403	C	PHE	B	89	14.878	55.583	90.080	1.00	100.07
ATOM	2404	O	PHE	B	89	15.720	55.211	89.264	1.00	100.07
ATOM	2405	N	LEU	B	90	13.993	54.754	90.619	1.00	100.07
ATOM	2406	CA	LEU	B	90	14.003	53.341	90.263	1.00	100.07
ATOM	2407	CB	LEU	B	90	14.628	52.522	91.389	1.00	93.06
ATOM	2408	CG	LEU	B	90	16.127	52.704	91.604	1.00	93.06
ATOM	2409	CD1	LEU	B	90	16.568	51.930	92.851	1.00	93.06
ATOM	2410	CD2	LEU	B	90	16.866	52.229	90.356	1.00	93.06
ATOM	2411	C	LEU	B	90	12.615	52.805	89.982	1.00	100.07
ATOM	2412	O	LEU	B	90	12.437	51.956	89.102	1.00	100.07
ATOM	2413	N	ASP	B	91	11.637	53.284	90.748	1.00	100.07
ATOM	2414	CA	ASP	B	91	10.253	52.859	90.564	1.00	100.07
ATOM	2415	CB	ASP	B	91	9.321	53.600	91.545	1.00	100.07
ATOM	2416	CG	ASP	B	91	9.329	52.991	92.948	1.00	100.07
ATOM	2417	OD1	ASP	B	91	9.179	51.756	93.064	1.00	100.07
ATOM	2418	OD2	ASP	B	91	9.471	53.746	93.937	1.00	100.07
ATOM	2419	C	ASP	B	91	9.845	53.161	89.117	1.00	100.07
ATOM	2420	O	ASP	B	91	10.682	53.488	88.276	1.00	100.07
ATOM	2421	N	PRO	B	92	8.554	53.042	88.801	1.00	99.91
ATOM	2422	CD	PRO	B	92	7.463	52.328	89.492	1.00	100.07
ATOM	2423	CA	PRO	B	92	8.186	53.333	87.416	1.00	99.91
ATOM	2424	CB	PRO	B	92	7.138	52.280	87.132	1.00	100.07
ATOM	2425	CG	PRO	B	92	6.360	52.296	88.434	1.00	100.07
ATOM	2426	C	PRO	B	92	7.592	54.723	87.345	1.00	99.91
ATOM	2427	O	PRO	B	92	7.528	55.342	86.283	1.00	99.91
ATOM	2428	N	ARG	B	93	7.136	55.184	88.501	1.00	99.05
ATOM	2429	CA	ARG	B	93	6.524	56.490	88.647	1.00	99.05
ATOM	2430	CB	ARG	B	93	5.059	56.313	89.046	1.00	100.07
ATOM	2431	CG	ARG	B	93	4.286	57.591	89.294	1.00	100.07
ATOM	2432	CD	ARG	B	93	3.730	58.184	88.012	1.00	100.07
ATOM	2433	NE	ARG	B	93	2.691	59.169	88.314	1.00	100.07
ATOM	2434	CZ	ARG	B	93	1.973	59.818	87.400	1.00	100.07
ATOM	2435	NH1	ARG	B	93	2.179	59.589	86.106	1.00	100.07
ATOM	2436	NH2	ARG	B	93	1.042	60.691	87.779	1.00	100.07
ATOM	2437	C	ARG	B	93	7.300	57.174	89.765	1.00	99.05
ATOM	2438	O	ARG	B	93	7.943	56.495	90.570	1.00	99.05
ATOM	2439	N	TRP	B	94	7.258	58.504	89.815	1.00	100.07
ATOM	2440	CA	TRP	B	94	7.968	59.221	90.866	1.00	100.07
ATOM	2441	CB	TRP	B	94	9.455	58.871	90.827	1.00	100.07



ATOM	2483	CD2	LEU	B	98	16.553	62.298	99.214	1.00100.07	B
ATOM	2484	C	LEU	B	98	14.936	65.189	101.459	1.00 90.84	B
ATOM	2485	O	LEU	B	98	14.724	66.400	101.570	1.00 90.84	B
ATOM	2486	N	ILE	B	99	15.443	64.443	102.426	1.00100.07	B
ATOM	2487	CA	ILE	B	99	15.764	64.996	103.715	1.00100.07	B
ATOM	2488	CB	ILE	B	99	15.091	64.178	104.816	1.00 82.57	B
ATOM	2489	CG2	ILE	B	99	15.535	64.666	106.177	1.00 82.57	B
ATOM	2490	CG1	ILE	B	99	13.574	64.276	104.658	1.00 82.57	B
ATOM	2491	CD	ILE	B	99	13.049	65.709	104.586	1.00 82.57	B
ATOM	2492	C	ILE	B	99	17.258	65.039	103.958	1.00100.07	B
ATOM	2493	O	ILE	B	99	18.018	64.203	103.473	1.00100.07	B
ATOM	2494	N	LEU	B	100	17.661	66.048	104.711	1.00 94.32	B
ATOM	2495	CA	LEU	B	100	19.046	66.254	105.075	1.00 94.32	B
ATOM	2496	CB	LEU	B	100	19.776	67.066	104.001	1.00 96.49	B
ATOM	2497	CG	LEU	B	100	21.262	67.353	104.253	1.00 96.49	B
ATOM	2498	CD1	LEU	B	100	22.084	66.077	104.097	1.00 96.49	B
ATOM	2499	CD2	LEU	B	100	21.742	68.412	103.281	1.00 96.49	B
ATOM	2500	C	LEU	B	100	18.921	67.072	106.336	1.00 94.32	B
ATOM	2501	O	LEU	B	100	18.637	68.261	106.265	1.00 94.32	B
ATOM	2502	N	ARG	B	101	19.099	66.428	107.484	1.00100.07	B
ATOM	2503	CA	ARG	B	101	18.996	67.124	108.756	1.00100.07	B
ATOM	2504	CB	ARG	B	101	17.862	66.541	109.600	1.00100.07	B
ATOM	2505	CG	ARG	B	101	16.645	66.117	108.811	1.00100.07	B
ATOM	2506	CD	ARG	B	101	15.767	65.207	109.654	1.00100.07	B
ATOM	2507	NE	ARG	B	101	14.936	64.329	108.833	1.00100.07	B
ATOM	2508	CZ	ARG	B	101	14.128	63.392	109.319	1.00100.07	B
ATOM	2509	NH1	ARG	B	101	14.037	63.209	110.630	1.00100.07	B
ATOM	2510	NH2	ARG	B	101	13.411	62.636	108.493	1.00100.07	B
ATOM	2511	C	ARG	B	101	20.302	66.991	109.522	1.00100.07	B
ATOM	2512	O	ARG	B	101	20.391	67.439	110.663	1.00100.07	B
ATOM	2513	N	ALA	B	102	21.311	66.366	108.917	1.00 84.36	B
ATOM	2514	CA	ALA	B	102	22.595	66.238	109.602	1.00 84.36	B
ATOM	2515	CB	ALA	B	102	23.664	65.684	108.668	1.00 31.29	B
ATOM	2516	C	ALA	B	102	22.951	67.654	110.027	1.00 84.36	B
ATOM	2517	O	ALA	B	102	22.259	68.604	109.659	1.00 84.36	B
ATOM	2518	N	ALA	B	103	24.021	67.816	110.790	1.00 98.79	B
ATOM	2519	CA	ALA	B	103	24.378	69.152	111.235	1.00 98.79	B
ATOM	2520	CB	ALA	B	103	23.258	69.718	112.084	1.00 36.97	B
ATOM	2521	C	ALA	B	103	25.663	69.114	112.033	1.00 98.79	B
ATOM	2522	O	ALA	B	103	26.061	70.105	112.646	1.00 98.79	B
ATOM	2523	N	GLY	B	104	26.301	67.952	112.049	1.00 99.66	B
ATOM	2524	CA	GLY	B	104	27.552	67.847	112.760	1.00 99.66	B
ATOM	2525	C	GLY	B	104	28.491	68.825	112.083	1.00 99.66	B
ATOM	2526	O	GLY	B	104	28.585	68.821	110.855	1.00 99.66	B
ATOM	2527	N	PRO	B	105	29.177	69.695	112.840	1.00 99.90	B
ATOM	2528	CD	PRO	B	105	28.942	69.919	114.281	1.00 61.68	B
ATOM	2529	CA	PRO	B	105	30.118	70.692	112.296	1.00 99.90	B
ATOM	2530	CB	PRO	B	105	30.670	71.345	113.565	1.00 61.68	B
ATOM	2531	CG	PRO	B	105	29.481	71.305	114.489	1.00 61.68	B
ATOM	2532	C	PRO	B	105	31.243	70.165	111.356	1.00 99.90	B
ATOM	2533	O	PRO	B	105	32.430	70.265	111.683	1.00 99.90	B
ATOM	2534	N	LYS	B	106	30.863	69.637	110.188	1.00 99.99	B
ATOM	2535	CA	LYS	B	106	31.815	69.084	109.213	1.00 99.99	B
ATOM	2536	CB	LYS	B	106	32.076	67.612	109.536	1.00 99.91	B
ATOM	2537	CG	LYS	B	106	32.565	67.373	110.958	1.00 99.91	B
ATOM	2538	CD	LYS	B	106	32.057	66.047	111.509	1.00 99.91	B
ATOM	2539	CE	LYS	B	106	32.273	65.964	113.010	1.00 99.91	B
ATOM	2540	NZ	LYS	B	106	31.590	64.787	113.598	1.00 99.91	B
ATOM	2541	C	LYS	B	106	31.306	69.223	107.765	1.00 99.99	B
ATOM	2542	O	LYS	B	106	30.276	69.855	107.536	1.00 99.99	B
ATOM	2543	N	GLU	B	107	32.005	68.619	106.797	1.00 61.16	B
ATOM	2544	CA	GLU	B	107	31.626	68.737	105.380	1.00 61.16	B
ATOM	2545	CB	GLU	B	107	32.835	68.423	104.478	1.00100.07	B
ATOM	2546	CG	GLU	B	107	34.002	69.422	104.564	1.00100.07	B
ATOM	2547	CD	GLU	B	107	34.986	69.333	103.382	1.00100.07	B
ATOM	2548	OE1	GLU	B	107	34.609	69.718	102.254	1.00100.07	B
ATOM	2549	OE2	GLU	B	107	36.138	68.883	103.581	1.00100.07	B
ATOM	2550	C	GLU	B	107	30.422	67.956	104.845	1.00 61.16	B
ATOM	2551	O	GLU	B	107	30.571	66.820	104.398	1.00 61.16	B
ATOM	2552	N	VAL	B	108	29.241	68.574	104.863	1.00 55.48	B
ATOM	2553	CA	VAL	B	108	28.019	67.944	104.338	1.00 55.48	B
ATOM	2554	CB	VAL	B	108	26.806	68.899	104.429	1.00 80.68	B
ATOM	2555	CG1	VAL	B	108	25.721	68.457	103.468	1.00 80.68	B
ATOM	2556	CG2	VAL	B	108	26.259	68.913	105.846	1.00 80.68	B
ATOM	2557	C	VAL	B	108	28.256	67.612	102.871	1.00 55.48	B
ATOM	2558	O	VAL	B	108	28.874	68.395	102.167	1.00 55.48	B
ATOM	2559	N	ARG	B	109	27.759	66.472	102.399	1.00 92.03	B
ATOM	2560	CA	ARG	B	109	27.998	66.098	101.007	1.00 92.03	B
ATOM	2561	CB	ARG	B	109	29.477	65.782	100.833	1.00100.07	B
ATOM	2562	CG	ARG	B	109	30.058	64.980	101.985	1.00100.07	B
ATOM	2563	CD	ARG	B	109	31.512	64.666	101.726	1.00100.07	B
ATOM	2564	NE	ARG	B	109	32.377	65.057	102.832	1.00100.07	B
ATOM	2565	CZ	ARG	B	109	33.699	64.922	102.816	1.00100.07	B
ATOM	2566	NH1	ARG	B	109	34.299	64.406	101.753	1.00100.07	B



ATOM	2567	NH2	ARG	B	109	34.422	65.301	103.860	1.00100.07	B
ATOM	2568	C	ARG	B	109	27.177	64.938	100.448	1.00 92.03	B
ATOM	2569	O	ARG	B	109	27.539	63.777	100.629	1.00 92.03	B
ATOM	2570	N	ALA	B	110	26.094	65.269	99.745	1.00100.07	B
ATOM	2571	CA	ALA	B	110	25.198	64.291	99.121	1.00100.07	B
ATOM	2572	CB	ALA	B	110	25.788	63.809	97.803	1.00 80.83	B
ATOM	2573	C	ALA	B	110	24.821	63.091	99.994	1.00100.07	B
ATOM	2574	O	ALA	B	110	23.686	63.005	100.453	1.00100.07	B
ATOM	2575	N	VAL	B	111	25.763	62.166	100.203	1.00100.07	B
ATOM	2576	CA	VAL	B	111	25.545	60.957	101.022	1.00100.07	B
ATOM	2577	CB	VAL	B	111	26.891	60.379	101.574	1.00 71.79	B
ATOM	2578	CG1	VAL	B	111	26.628	59.239	102.561	1.00 71.79	B
ATOM	2579	CG2	VAL	B	111	27.743	59.878	100.433	1.00 71.79	B
ATOM	2580	C	VAL	B	111	24.627	61.166	102.230	1.00100.07	B
ATOM	2581	O	VAL	B	111	23.600	60.501	102.381	1.00100.07	B
ATOM	2582	N	ASP	B	112	25.019	62.091	103.092	1.00 86.11	B
ATOM	2583	CA	ASP	B	112	24.280	62.404	104.304	1.00 86.11	B
ATOM	2584	CB	ASP	B	112	25.011	63.522	105.052	1.00100.07	B
ATOM	2585	CG	ASP	B	112	26.533	63.410	104.938	1.00100.07	B
ATOM	2586	OD1	ASP	B	112	27.230	64.364	105.352	1.00100.07	B
ATOM	2587	OD2	ASP	B	112	27.036	62.376	104.438	1.00100.07	B
ATOM	2588	C	ASP	B	112	22.838	62.835	104.011	1.00 86.11	B
ATOM	2589	O	ASP	B	112	22.119	63.285	104.904	1.00 86.11	B
ATOM	2590	N	PHE	B	113	22.416	62.681	102.761	1.00100.07	B
ATOM	2591	CA	PHE	B	113	21.078	63.086	102.335	1.00100.07	B
ATOM	2592	CB	PHE	B	113	21.080	63.361	100.826	1.00 90.11	B
ATOM	2593	CG	PHE	B	113	20.489	64.683	100.447	1.00 90.11	B
ATOM	2594	CD1	PHE	B	113	20.974	65.859	100.997	1.00 90.11	B
ATOM	2595	CD2	PHE	B	113	19.466	64.758	99.516	1.00 90.11	B
ATOM	2596	CE1	PHE	B	113	20.448	67.093	100.623	1.00 90.11	B
ATOM	2597	CE2	PHE	B	113	18.934	65.989	99.135	1.00 90.11	B
ATOM	2598	CZ	PHE	B	113	19.427	67.156	99.689	1.00 90.11	B
ATOM	2599	C	PHE	B	113	19.949	62.105	102.655	1.00100.07	B
ATOM	2600	O	PHE	B	113	19.202	61.717	101.756	1.00100.07	B
ATOM	2601	N	THR	B	114	19.813	61.711	103.920	1.00100.07	B
ATOM	2602	CA	THR	B	114	18.742	60.789	104.315	1.00100.07	B
ATOM	2603	CB	THR	B	114	17.361	61.486	104.238	1.00 88.84	B
ATOM	2604	OG1	THR	B	114	17.280	62.487	105.258	1.00 88.84	B
ATOM	2605	CG2	THR	B	114	16.229	60.486	104.412	1.00 88.84	B
ATOM	2606	C	THR	B	114	18.704	59.555	103.409	1.00100.07	B
ATOM	2607	O	THR	B	114	18.027	59.555	102.379	1.00100.07	B
ATOM	2608	N	PRO	B	115	19.409	58.477	103.798	1.00 99.99	



ATOM	2651	CA	ILE	B	121	22.320	58.952	94.725	1.00	86.75	B
ATOM	2652	CB	ILE	B	121	22.667	59.395	96.176	1.00	60.89	B
ATOM	2653	CG2	ILE	B	121	23.796	60.419	96.169	1.00	60.89	B
ATOM	2654	CG1	ILE	B	121	21.408	59.954	96.864	1.00	60.89	B
ATOM	2655	CD	ILE	B	121	20.766	61.159	96.164	1.00	60.89	B
ATOM	2656	C	ILE	B	121	23.593	58.669	93.948	1.00	86.75	B
ATOM	2657	O	ILE	B	121	24.635	58.360	94.526	1.00	86.75	B
ATOM	2658	N	MET	B	122	23.483	58.756	92.628	1.00	68.28	B
ATOM	2659	CA	MET	B	122	24.607	58.510	91.736	1.00	68.28	B
ATOM	2660	CB	MET	B	122	24.272	59.014	90.331	1.00	100.07	B
ATOM	2661	CG	MET	B	122	24.003	57.901	89.333	1.00	100.07	B
ATOM	2662	SD	MET	B	122	22.975	56.597	90.026	1.00	100.07	B
ATOM	2663	CE	MET	B	122	24.226	55.365	90.479	1.00	100.07	B
ATOM	2664	C	MET	B	122	25.891	59.178	92.235	1.00	68.28	B
ATOM	2665	O	MET	B	122	26.891	58.508	92.514	1.00	68.28	B
ATOM	2666	N	ASN	B	123	25.857	60.501	92.341	1.00	99.82	B
ATOM	2667	CA	ASN	B	123	27.009	61.257	92.807	1.00	99.82	B
ATOM	2668	CB	ASN	B	123	27.095	62.579	92.045	1.00	54.79	B
ATOM	2669	CG	ASN	B	123	25.800	63.352	92.084	1.00	54.79	B
ATOM	2670	OD1	ASN	B	123	24.718	62.769	92.119	1.00	54.79	B
ATOM	2671	ND2	ASN	B	123	25.900	64.673	92.058	1.00	54.79	B
ATOM	2672	C	ASN	B	123	26.908	61.495	94.314	1.00	99.82	B
ATOM	2673	O	ASN	B	123	26.147	62.348	94.773	1.00	99.82	B
ATOM	2674	N	PRO	B	124	27.699	60.743	95.098	1.00	35.86	B
ATOM	2675	CD	PRO	B	124	28.697	59.817	94.528	1.00	100.07	B
ATOM	2676	CA	PRO	B	124	27.800	60.747	96.562	1.00	35.86	B
ATOM	2677	CB	PRO	B	124	28.588	59.484	96.840	1.00	100.07	B
ATOM	2678	CG	PRO	B	124	29.581	59.509	95.726	1.00	100.07	B
ATOM	2679	C	PRO	B	124	28.453	61.931	97.208	1.00	35.86	B
ATOM	2680	O	PRO	B	124	27.993	62.399	98.241	1.00	35.86	B
ATOM	2681	N	ASP	B	125	29.550	62.386	96.620	1.00	100.07	B
ATOM	2682	CA	ASP	B	125	30.287	63.514	97.160	1.00	100.07	B
ATOM	2683	CB	ASP	B	125	31.677	63.542	96.541	1.00	100.07	B
ATOM	2684	CG	ASP	B	125	32.258	62.150	96.400	1.00	100.07	B
ATOM	2685	OD1	ASP	B	125	31.872	61.267	97.195	1.00	100.07	B
ATOM	2686	OD2	ASP	B	125	33.096	61.932	95.504	1.00	100.07	B
ATOM	2687	C	ASP	B	125	29.525	64.795	96.873	1.00	100.07	B
ATOM	2688	O	ASP	B	125	28.635	65.159	97.639	1.00	100.07	B
ATOM	2689	N	LEU	B	126	29.842	65.465	95.770	1.00	99.82	B
ATOM	2690	CA	LEU	B	126	29.157	66.711	95.441	1.00	99.82	B
ATOM	2691	CB	LEU	B	126	27.736	66.440	94.950	1.00	92.04	B
ATOM	2692	CG	LEU	B	126	26.955	67.718	94.631	1.00	92.04	B
ATOM	2693	CD1	LEU	B	126	27.485	68.342	93.347	1.00	92.04	B
ATOM	2694	CD2	LEU	B	126	25.485	67.397	94.491	1.00	92.04	B
ATOM	2695	C	LEU	B	126	29.098	67.545	96.714	1.00	99.82	B
ATOM	2696	O	LEU	B	126	28.062	67.603	97.378	1.00	99.82	B
ATOM	2697	N	HIS	B	127	30.213	68.187	97.043	1.00	68.55	B
ATOM	2698	CA	HIS	B	127	30.334	68.991	98.251	1.00	68.55	B
ATOM	2699	CB	HIS	B	127	31.320	70.123	98.019	1.00	100.07	B
ATOM	2700	CG	HIS	B	127	31.805	70.734	99.290	1.00	100.07	B
ATOM	2701	CD2	HIS	B	127	33.002	70.653	99.919	1.00	100.07	B
ATOM	2702	ND1	HIS	B	127	30.976	71.443	100.132	1.00	100.07	B
ATOM	2703	CE1	HIS	B	127	31.640	71.767	101.227	1.00	100.07	B
ATOM	2704	NE2	HIS	B	127	32.872	71.300	101.124	1.00	100.07	B
ATOM	2705	C	HIS	B	127	29.088	69.566	98.933	1.00	68.55	B
ATOM	2706	O	HIS	B	127	29.066	69.676	100.151	1.00	68.55	B
ATOM	2707	N	ILE	B	128	28.063	69.933	98.174	1.00	100.07	B
ATOM	2708	CA	ILE	B	128	26.829	70.503	98.737	1.00	100.07	B
ATOM	2709	CB	ILE	B	128	25.911	69.420	99.377	1.00	98.44	B
ATOM	2710	CG2	ILE	B	128	24.688	70.087	100.028	1.00	98.44	B
ATOM	2711	CG1	ILE	B	128	25.426	68.448	98.291	1.00	98.44	B
ATOM	2712	CD	ILE	B	128	24.313	67.505	98.725	1.00	98.44	B
ATOM	2713	C	ILE	B	128	27.018	71.661	99.728	1.00	100.07	B
ATOM	2714	O	ILE	B	128	26.510	72.760	99.488	1.00	100.07	B
ATOM	2715	N	ALA	B	129	27.721	71.432	100.835	1.00	55.59	B
ATOM	2716	CA	ALA	B	129	27.953	72.499	101.801	1.00	55.59	B
ATOM	2717	CB	ALA	B	129	26.619	73.108	102.249	1.00	17.18	B
ATOM	2718	C	ALA	B	129	28.785	72.115	103.016	1.00	55.59	B
ATOM	2719	O	ALA	B	129	28.753	70.975	103.487	1.00	55.59	B
ATOM	2720	N	THR	B	130	29.530	73.101	103.511	1.00	98.41	B
ATOM	2721	CA	THR	B	130	30.400	72.962	104.678	1.00	98.41	B
ATOM	2722	CB	THR	B	130	31.868	73.431	104.348	1.00	63.09	B
ATOM	2723	OG1	THR	B	130	32.586	72.385	103.676	1.00	63.09	B
ATOM	2724	CG2	THR	B	130	32.615	73.823	105.613	1.00	63.09	B
ATOM	2725	C	THR	B	130	29.835	73.820	105.823	1.00	98.41	B
ATOM	2726	O	THR	B	130	29.439	74.973	105.621	1.00	98.41	B
ATOM	2727	N	LEU	B	131	29.780	73.241	107.018	1.00	76.18	B
ATOM	2728	CA	LEU	B	131	29.298	73.950	108.199	1.00	76.18	B
ATOM	2729	CB	LEU	B	131	27.789	73.742	108.390	1.00	99.38	B
ATOM	2730	CG	LEU	B	131	27.202	72.343	108.600	1.00	99.38	B
ATOM	2731	CD1	LEU	B	131	25.750	72.447	109.035	1.00	99.38	B
ATOM	2732	CD2	LEU	B	131	27.307	71.557	107.319	1.00	99.38	B
ATOM	2733	C	LEU	B	131	30.066	73.470	109.438	1.00	76.18	B
ATOM	2734	O	LEU	B	131	30.284	72.269	109.617	1.00	76.18	B



ATOM	2735	N	GLU	B	132	30.475	74.417	110.283	1.00	97.11	B
ATOM	2736	CA	GLU	B	132	31.255	74.123	111.486	1.00	97.11	B
ATOM	2737	CB	GLU	B	132	32.533	74.981	111.482	1.00100.00		B
ATOM	2738	CG	GLU	B	132	33.555	74.656	112.575	1.00100.00		B
ATOM	2739	CD	GLU	B	132	34.748	75.610	112.586	1.00100.00		B
ATOM	2740	OE1	GLU	B	132	35.586	75.552	111.658	1.00100.00		B
ATOM	2741	OE2	GLU	B	132	34.845	76.423	113.530	1.00100.00		B
ATOM	2742	C	GLU	B	132	30.470	74.372	112.769	1.00	97.11	B
ATOM	2743	O	GLU	B	132	29.253	74.529	112.721	1.00	97.11	B
ATOM	2744	N	GLU	B	133	31.187	74.411	113.898	1.00	80.07	B
ATOM	2745	CA	GLU	B	133	30.617	74.621	115.235	1.00	80.07	B
ATOM	2746	CB	GLU	B	133	30.981	76.006	115.796	1.00100.07		B
ATOM	2747	CG	GLU	B	133	32.189	75.989	116.753	1.00100.07		B
ATOM	2748	CD	GLU	B	133	32.288	77.233	117.655	1.00100.07		B
ATOM	2749	OE1	GLU	B	133	31.285	77.575	118.330	1.00100.07		B
ATOM	2750	OE2	GLU	B	133	33.374	77.859	117.701	1.00100.07		B
ATOM	2751	C	GLU	B	133	29.116	74.438	115.274	1.00	80.07	B
ATOM	2752	O	GLU	B	133	28.625	73.426	115.764	1.00	80.07	B
ATOM	2753	N	GLY	B	134	28.388	75.422	114.760	1.00100.07		B
ATOM	2754	CA	GLY	B	134	26.943	75.316	114.728	1.00100.07		B
ATOM	2755	C	GLY	B	134	26.552	74.003	114.073	1.00100.07		B
ATOM	2756	O	GLY	B	134	27.403	73.183	113.716	1.00100.07		B
ATOM	2757	N	GLY	B	135	25.256	73.795	113.915	1.00	82.84	B
ATOM	2758	CA	GLY	B	135	24.799	72.571	113.299	1.00	82.84	B
ATOM	2759	C	GLY	B	135	23.382	72.791	112.835	1.00	82.84	B
ATOM	2760	O	GLY	B	135	22.486	72.022	113.165	1.00	82.84	B
ATOM	2761	N	LYS	B	136	23.175	73.874	112.097	1.00100.07		B
ATOM	2762	CA	LYS	B	136	21.855	74.186	111.564	1.00100.07		B
ATOM	2763	CB	LYS	B	136	21.897	75.511	110.784	1.00	99.93	B
ATOM	2764	CG	LYS	B	136	21.306	76.691	111.515	1.00	99.93	B
ATOM	2765	CD	LYS	B	136	19.839	76.447	111.797	1.00	99.93	B
ATOM	2766	CE	LYS	B	136	19.267	77.505	112.716	1.00	99.93	B
ATOM	2767	NZ	LYS	B	136	17.844	77.213	113.027	1.00	99.93	B
ATOM	2768	C	LYS	B	136	21.464	73.048	110.621	1.00100.07		B
ATOM	2769	O	LYS	B	136	21.312	71.895	111.036	1.00100.07		B
ATOM	2770	N	LEU	B	137	21.293	73.393	109.350	1.00	98.57	B
ATOM	2771	CA	LEU	B	137	20.974	72.424	108.322	1.00	98.57	B
ATOM	2772	CB	LEU	B	137	21.786	71.149	108.557	1.00100.07		B
ATOM	2773	CG	LEU	B	137	22.513	70.536	107.362	1.00100.07		B
ATOM	2774	CD1	LEU	B	137	21.497	70.114	106.316	1.00100.07		B
ATOM	2775	CD2	LEU	B	137	23.509	71.538	106.785	1.00100.07		B
ATOM	2776	C	LEU	B	137	19.509	72.062	108.158	1.00	98.57	B
ATOM	2777	O	LEU	B	137	18.635	72.925	108.038	1.00	98.57	B
ATOM	2778	N	TYR	B	138	19.270	70.758	108.165	1.00	93.30	B
ATOM	2779	CA	TYR	B	138	17.955	70.177	107.964	1.00	93.30	B
ATOM	2780	CB	TYR	B	138	17.083	70.282	109.216	1.00100.07		B
ATOM	2781	CG	TYR	B	138	15.841	69.401	109.163	1.00100.07		B
ATOM	2782	CD1	TYR	B	138	15.311	68.831	110.326	1.00100.07		B
ATOM	2783	CE1	TYR	B	138	14.121	68.096	110.290	1.00100.07		B
ATOM	2784	CD2	TYR	B	138	15.152	69.200	107.962	1.00100.07		B
ATOM	2785	CE2	TYR	B	138	13.975	68.474	107.919	1.00100.07		B
ATOM	2786	CZ	TYR	B	138	13.456	67.929	109.078	1.00100.07		B
ATOM	2787	OH	TYR	B	138	12.252	67.257	109.023	1.00100.07		B
ATOM	2788	C	TYR	B	138	17.275	70.792	106.752	1.00	93.30	B
ATOM	2789	O	TYR	B	138	16.477	71.731	106.850	1.00	93.30	B
ATOM	2790	N	MET	B	139	17.631	70.240	105.599	1.00	55.15	B
ATOM	2791	CA	MET	B	139	17.089	70.663	104.331	1.00	55.15	B
ATOM	2792	CB	MET	B	139	18.193	70.789	103.283	1.00	80.40	B
ATOM	2793	CG	MET	B	139	19.147	71.949	103.447	1.00	80.40	B
ATOM	2794	SD	MET	B	139	19.904	72.301	101.841	1.00	80.40	B
ATOM	2795	CE	MET	B	139	21.380	71.247	101.910	1.00	80.40	B
ATOM	2796	C	MET	B	139	16.108	69.607	103.863	1.00	55.15	B
ATOM	2797	O	MET	B	139	16.340	68.406	104.037	1.00	55.15	B
ATOM	2798	N	GLU	B	140	15.017	70.068	103.265	1.00	77.01	B
ATOM	2799	CA	GLU	B	140	13.997	69.186	102.732	1.00	77.01	B
ATOM	2800	CB	GLU	B	140	12.729	69.274	103.582	1.00	82.89	B
ATOM	2801	CG	GLU	B	140	13.000	68.994	105.054	1.00	82.89	B
ATOM	2802	CD	GLU	B	140	11.743	68.800	105.872	1.00	82.89	B
ATOM	2803	OE1	GLU	B	140	10.858	69.677	105.824	1.00	82.89	B
ATOM	2804	OE2	GLU	B	140	11.645	67.771	106.570	1.00	82.89	B
ATOM	2805	C	GLU	B	140	13.756	69.644	101.305	1.00	77.01	B
ATOM	2806	O	GLU	B	140	12.992	70.574	101.044	1.00	77.01	B
ATOM	2807	N	VAL	B	141	14.446	68.985	100.386	1.00	92.65	B
ATOM	2808	CA	VAL	B	141	14.359	69.322	98.979	1.00	92.65	B
ATOM	2809	CB	VAL	B	141	15.766	69.498	98.379	1.00100.07		B
ATOM	2810	CG1	VAL	B	141	16.551	68.198	98.494	1.00100.07		B
ATOM	2811	CG2	VAL	B	141	15.659	69.928	96.933	1.00100.07		B
ATOM	2812	C	VAL	B	141	13.606	68.280	98.162	1.00	92.65	B
ATOM	2813	O	VAL	B	141	13.829	67.072	98.286	1.00	92.65	B
ATOM	2814	N	ARG	B	142	12.705	68.770	97.323	1.00100.07		B
ATOM	2815	CA	ARG	B	142	11.932	67.911	96.451	1.00100.07		B
ATOM	2816	CB	ARG	B	142	10.620	68.591	96.034	1.00100.07		B
ATOM	2817	CG	ARG	B	142	10.609	70.116	96.158	1.00100.07		B
ATOM	2818	CD	ARG	B	142	10.544	70.568	97.632	1.00100.07		B



ATOM	2819	NE	ARG	B	142	10.382	72.019	97.785	1.00100.07	B
ATOM	2820	CZ	ARG	B	142	10.316	72.652	98.957	1.00100.07	B
ATOM	2821	NH1	ARG	B	142	10.399	71.965	100.089	1.00100.07	B
ATOM	2822	NH2	ARG	B	142	10.168	73.971	99.001	1.00100.07	B
ATOM	2823	C	ARG	B	142	12.771	67.626	95.226	1.00100.07	B
ATOM	2824	O	ARG	B	142	13.922	68.046	95.138	1.00100.07	B
ATOM	2825	N	VAL	B	143	12.197	66.888	94.291	1.00100.07	B
ATOM	2826	CA	VAL	B	143	12.869	66.565	93.044	1.00100.07	B
ATOM	2827	CB	VAL	B	143	13.654	65.222	93.138	1.00 61.67	B
ATOM	2828	CG1	VAL	B	143	14.587	65.088	91.954	1.00 61.67	B
ATOM	2829	CG2	VAL	B	143	14.480	65.172	94.425	1.00 61.67	B
ATOM	2830	C	VAL	B	143	11.693	66.476	92.072	1.00100.07	B
ATOM	2831	O	VAL	B	143	10.574	66.841	92.442	1.00100.07	B
ATOM	2832	N	ASP	B	144	11.924	66.007	90.851	1.00 95.21	B
ATOM	2833	CA	ASP	B	144	10.846	65.926	89.867	1.00 95.21	B
ATOM	2834	CB	ASP	B	144	10.515	67.329	89.344	1.00 72.03	B
ATOM	2835	CG	ASP	B	144	9.111	67.775	89.695	1.00 72.03	B
ATOM	2836	OD1	ASP	B	144	8.828	67.943	90.900	1.00 72.03	B
ATOM	2837	OD2	ASP	B	144	8.292	67.961	88.769	1.00 72.03	B
ATOM	2838	C	ASP	B	144	11.207	65.049	88.672	1.00 95.21	B
ATOM	2839	O	ASP	B	144	12.376	64.724	88.456	1.00 95.21	B
ATOM	2840	N	ARG	B	145	10.191	64.659	87.904	1.00100.07	B
ATOM	2841	CA	ARG	B	145	10.410	63.881	86.691	1.00100.07	B
ATOM	2842	CB	ARG	B	145	9.142	63.134	86.261	1.00 99.83	B
ATOM	2843	CG	ARG	B	145	8.137	63.998	85.489	1.00 99.83	B
ATOM	2844	CD	ARG	B	145	7.010	63.161	84.877	1.00 99.83	B
ATOM	2845	NE	ARG	B	145	6.077	63.960	84.075	1.00 99.83	B
ATOM	2846	CZ	ARG	B	145	4.988	63.473	83.475	1.00 99.83	B
ATOM	2847	NH1	ARG	B	145	4.684	62.186	83.580	1.00 99.83	B
ATOM	2848	NH2	ARG	B	145	4.195	64.274	82.769	1.00 99.83	B
ATOM	2849	C	ARG	B	145	10.654	65.037	85.735	1.00100.07	B
ATOM	2850	O	ARG	B	145	10.125	66.128	85.961	1.00100.07	B
ATOM	2851	N	GLY	B	146	11.422	64.827	84.672	1.00 98.78	B
ATOM	2852	CA	GLY	B	146	11.685	65.944	83.783	1.00 98.78	B
ATOM	2853	C	GLY	B	146	11.575	65.771	82.286	1.00 98.78	B
ATOM	2854	O	GLY	B	146	10.806	64.953	81.787	1.00 98.78	B
ATOM	2855	N	VAL	B	147	12.360	66.577	81.577	1.00 42.75	B
ATOM	2856	CA	VAL	B	147	12.412	66.600	80.112	1.00 42.75	B
ATOM	2857	CB	VAL	B	147	11.075	67.070	79.506	1.00100.07	B
ATOM	2858	CG1	VAL	B	147	10.278	65.878	79.025	1.00100.07	B
ATOM	2859	CG2	VAL	B	147	10.276	67.864	80.548	1.00100.07	B
ATOM	2860	C	VAL	B	147	13.490	67.610	79.738	1.00 42.75	B
ATOM	2861	O	VAL	B	147	14.608	67.517	80.226	1.00 42.75	B
ATOM	2862	N	GLY	B	148	13.153	68.584	78.899	1.00 59.44	B
ATOM	2863	CA	GLY	B	148	14.124	69.601	78.532	1.00 59.44	B
ATOM	2864	C	GLY	B	148	14.693	70.368	79.721	1.00 59.44	B
ATOM	2865	O	GLY	B	148	15.242	69.767	80.648	1.00 59.44	B
ATOM	2866	N	TYR	B	149	14.574	71.696	79.697	1.00 61.94	B
ATOM	2867	CA	TYR	B	149	15.084	72.552	80.783	1.00 61.94	B
ATOM	2868	CB	TYR	B	149	16.250	73.427	80.288	1.00 40.16	B
ATOM	2869	CG	TYR	B	149	17.066	74.178	81.346	1.00 40.16	B
ATOM	2870	CD1	TYR	B	149	18.019	73.518	82.119	1.00 40.16	B
ATOM	2871	CE1	TYR	B	149	18.853	74.224	83.004	1.00 40.16	B
ATOM	2872	CD2	TYR	B	149	16.958	75.571	81.493	1.00 40.16	B
ATOM	2873	CE2	TYR	B	149	17.792	76.289	82.378	1.00 40.16	B
ATOM	2874	CZ	TYR	B	149	18.739	75.605	83.128	1.00 40.16	B
ATOM	2875	OH	TYR	B	149	19.576	76.283	83.998	1.00 40.16	B
ATOM	2876	C	TYR	B	149	13.950	73.465	81.216	1.00 61.94	B
ATOM	2877	O	TYR	B	149	13.169	73.911	80.381	1.00 61.94	B
ATOM	2878	N	VAL	B	150	13.845	73.724	82.516	1.00 99.87	B
ATOM	2879	CA	VAL	B	150	12.824	74.629	83.036	1.00 99.87	B
ATOM	2880	CB	VAL	B	150	11.508	73.938	83.379	1.00 90.50	B
ATOM	2881	CG1	VAL	B	150	10.516	74.987	83.887	1.00 90.50	B
ATOM	2882	CG2	VAL	B	150	10.953	73.226	82.161	1.00 90.50	B
ATOM	2883	C	VAL	B	150	13.328	75.286	84.313	1.00 99.87	B
ATOM	2884	O	VAL	B	150	13.768	74.615	85.247	1.00 99.87	B
ATOM	2885	N	PRO	B	151	13.253	76.619	84.371	1.00100.07	B
ATOM	2886	CD	PRO	B	151	13.023	77.508	83.215	1.00 74.65	B
ATOM	2887	CA	PRO	B	151	13.710	77.381	85.532	1.00100.07	B
ATOM	2888	CB	PRO	B	151	14.412	78.552	84.881	1.00 74.65	B
ATOM	2889	CG	PRO	B	151	13.440	78.880	83.752	1.00 74.65	B
ATOM	2890	C	PRO	B	151	12.600	77.848	86.466	1.00100.07	B
ATOM	2891	O	PRO	B	151	11.637	77.126	86.726	1.00100.07	B
ATOM	2892	N	ALA	B	152	12.767	79.073	86.964	1.00 59.87	B
ATOM	2893	CA	ALA	B	152	11.803	79.716	87.851	1.00 59.87	B
ATOM	2894	CB	ALA	B	152	12.429	80.935	88.505	1.00100.07	B
ATOM	2895	C	ALA	B	152	10.555	80.126	87.052	1.00 59.87	B
ATOM	2896	O	ALA	B	152	10.185	81.308	86.957	1.00 59.87	B
ATOM	2897	N	GLU	B	153	9.942	79.111	86.455	1.00100.07	B
ATOM	2898	CA	GLU	B	153	8.720	79.230	85.669	1.00100.07	B
ATOM	2899	CB	GLU	B	153	8.982	78.839	84.212	1.00 88.53	B
ATOM	2900	CG	GLU	B	153	7.738	78.417	83.439	1.00 88.53	B
ATOM	2901	CD	GLU	B	153	6.629	79.446	83.505	1.00 88.53	B
ATOM	2902	OE1	GLU	B	153	6.884	80.616	83.160	1.00 88.53	B



ATOM	2903	OE2	GLU	B	153	5.500	79.086	83.898	1.00	88.53	B
ATOM	2904	C	GLU	B	153	7.821	78.185	86.324	1.00	100.07	B
ATOM	2905	O	GLU	B	153	6.604	78.349	86.459	1.00	100.07	B
ATOM	2906	N	ARG	B	154	8.468	77.099	86.726	1.00	89.73	B
ATOM	2907	CA	ARG	B	154	7.811	76.002	87.398	1.00	89.73	B
ATOM	2908	CB	ARG	B	154	8.359	74.676	86.871	1.00	100.07	B
ATOM	2909	CG	ARG	B	154	7.792	73.455	87.555	1.00	100.07	B
ATOM	2910	CD	ARG	B	154	7.363	72.400	86.546	1.00	100.07	B
ATOM	2911	NE	ARG	B	154	6.815	71.222	87.213	1.00	100.07	B
ATOM	2912	CZ	ARG	B	154	6.216	70.216	86.587	1.00	100.07	B
ATOM	2913	NH1	ARG	B	154	6.081	70.239	85.266	1.00	100.07	B
ATOM	2914	NH2	ARG	B	154	5.756	69.188	87.286	1.00	100.07	B
ATOM	2915	C	ARG	B	154	8.163	76.184	88.871	1.00	89.73	B
ATOM	2916	O	ARG	B	154	9.236	75.772	89.331	1.00	89.73	B
ATOM	2917	N	HIS	B	155	7.238	76.815	89.588	1.00	81.81	B
ATOM	2918	CA	HIS	B	155	7.382	77.134	91.006	1.00	81.81	B
ATOM	2919	CB	HIS	B	155	6.327	78.176	91.384	1.00	100.07	B
ATOM	2920	CG	HIS	B	155	5.950	79.084	90.252	1.00	100.07	B
ATOM	2921	CD2	HIS	B	155	4.746	79.552	89.844	1.00	100.07	B
ATOM	2922	ND1	HIS	B	155	6.879	79.607	89.378	1.00	100.07	B
ATOM	2923	CE1	HIS	B	155	6.264	80.355	88.479	1.00	100.07	B
ATOM	2924	NE2	HIS	B	155	4.969	80.338	88.739	1.00	100.07	B
ATOM	2925	C	HIS	B	155	7.331	75.958	91.987	1.00	81.81	B
ATOM	2926	O	HIS	B	155	6.701	74.932	91.720	1.00	81.81	B
ATOM	2927	N	GLY	B	156	8.010	76.132	93.123	1.00	78.05	B
ATOM	2928	CA	GLY	B	156	8.060	75.111	94.158	1.00	78.05	B
ATOM	2929	C	GLY	B	156	6.987	75.314	95.213	1.00	78.05	B
ATOM	2930	O	GLY	B	156	7.278	75.574	96.378	1.00	78.05	B
ATOM	2931	N	ILE	B	157	5.733	75.192	94.785	1.00	100.07	B
ATOM	2932	CA	ILE	B	157	4.583	75.351	95.666	1.00	100.07	B
ATOM	2933	CB	ILE	B	157	3.276	74.823	94.995	1.00	83.13	B
ATOM	2934	CG2	ILE	B	157	2.063	75.472	95.639	1.00	83.13	B
ATOM	2935	CG1	ILE	B	157	3.253	75.165	93.503	1.00	83.13	B
ATOM	2936	CD	ILE	B	157	3.110	76.638	93.196	1.00	83.13	B
ATOM	2937	C	ILE	B	157	4.817	74.567	96.962	1.00	100.07	B
ATOM	2938	O	ILE	B	157	4.783	75.139	98.047	1.00	100.07	B
ATOM	2939	N	LYS	B	158	5.062	73.262	96.827	1.00	100.07	B
ATOM	2940	CA	LYS	B	158	5.302	72.353	97.953	1.00	100.07	B
ATOM	2941	CB	LYS	B	158	6.715	71.773	97.885	1.00	99.97	B
ATOM	2942	CG	LYS	B	158	6.765	70.380	97.301	1.00	99.97	B
ATOM	2943	CD	LYS	B	158	7.549	69.436	98.190	1.00	99.97	B
ATOM	2944	CE	LYS	B	158	7.530	68.029	97.618	1.00	99.97	B
ATOM	2945	NZ	LYS	B	158	8.255	67.062	98.482	1.00	99.97	B
ATOM	2946	C	LYS	B	158	5.076	72.916	99.354	1.00	100.07	B
ATOM	2947	O	LYS	B	158	3.934	73.086	99.786	1.00	100.07	B
ATOM	2948	N	ASP	B	159	6.178	73.174	100.060	1.00	83.66	B
ATOM	2949	CA	ASP	B	159	6.164	73.723	101.420	1.00	83.66	B
ATOM	2950	CB	ASP	B	159	7.601	73.816	101.958	1.00	85.27	B
ATOM	2951	CG	ASP	B	159	7.675	74.397	103.367	1.00	85.27	B
ATOM	2952	OD1	ASP	B	159	7.208	73.722	104.310	1.00	85.27	B
ATOM	2953	OD2	ASP	B	159	8.206	75.525	103.529	1.00	85.27	B
ATOM	2954	C	ASP	B	159	5.550	75.122	101.407	1.00	83.66	B
ATOM	2955	O	ASP	B	159	5.956	75.989	102.178	1.00	83.66	B
ATOM	2956	N	ARG	B	160	4.581	75.334	100.520	1.00	80.11	B
ATOM	2957	CA	ARG	B	160	3.902	76.619	100.385	1.00	80.11	B
ATOM	2958	CB	ARG	B	160	3.040	76.901	101.622	1.00	100.07	B
ATOM	2959	CG	ARG	B	160	2.240	75.714	102.162	1.00	100.07	B
ATOM	2960	CD	ARG	B	160	1.668	76.058	103.536	1.00	100.07	B
ATOM	2961	NE	ARG	B	160	1.012	74.935	104.200	1.00	100.07	B
ATOM	2962	CZ	ARG	B	160	0.587	74.967	105.461	1.00	100.07	B
ATOM	2963	NH1	ARG	B	160	0.751	76.063	106.191	1.00	100.07	B
ATOM	2964	NH2	ARG	B	160	-0.001	73.905	105.996	1.00	100.07	B
ATOM	2965	C	ARG	B	160	4.933	77.725	100.241	1.00	80.11	B
ATOM	2966	O	ARG	B	160	5.280	78.126	99.129	1.00	80.11	B
ATOM	2967	N	ILE	B	161	5.403	78.233	101.379	1.00	100.07	B
ATOM	2968	CA	ILE	B	161	6.423	79.263	101.361	1.00	100.07	B
ATOM	2969	CB	ILE	B	161	5.817	80.686	101.585	1.00	93.92	B
ATOM	2970	CG2	ILE	B	161	6.914	81.701	101.919	1.00	93.92	B
ATOM	2971	CG1	ILE	B	161	5.092	81.117	100.298	1.00	93.92	B
ATOM	2972	CD	ILE	B	161	4.737	82.588	100.223	1.00	93.92	B
ATOM	2973	C	ILE	B	161	7.639	78.996	102.240	1.00	100.07	B
ATOM	2974	O	ILE	B	161	7.548	78.840	103.460	1.00	100.07	B
ATOM	2975	N	ASN	B	162	8.767	78.921	101.534	1.00	100.07	B
ATOM	2976	CA	ASN	B	162	10.119	78.653	102.024	1.00	100.07	B
ATOM	2977	CB	ASN	B	162	10.114	77.925	103.377	1.00	87.12	B
ATOM	2978	CG	ASN	B	162	9.859	78.855	104.552	1.00	87.12	B
ATOM	2979	OD1	ASN	B	162	10.393	79.968	104.627	1.00	87.12	B
ATOM	2980	ND2	ASN	B	162	9.049	78.389	105.489	1.00	87.12	B
ATOM	2981	C	ASN	B	162	10.683	77.717	100.949	1.00	100.07	B
ATOM	2982	O	ASN	B	162	11.729	77.077	101.108	1.00	100.07	B
ATOM	2983	N	ALA	B	163	9.955	77.661	99.842	1.00	85.63	B
ATOM	2984	CA	ALA	B	163	10.297	76.816	98.718	1.00	85.63	B
ATOM	2985	CB	ALA	B	163	9.130	76.789	97.745	1.00	66.82	B
ATOM	2986	C	ALA	B	163	11.575	77.194	97.975	1.00	85.63	B



ATOM	2987	O	ALA	B	163	12.384	76.318	97.646	1.00	85.63	B
ATOM	2988	N	ILE	B	164	11.755	78.489	97.717	1.00	83.16	B
ATOM	2989	CA	ILE	B	164	12.914	78.972	96.964	1.00	83.16	B
ATOM	2990	CB	ILE	B	164	14.184	79.126	97.855	1.00	54.32	B
ATOM	2991	CG2	ILE	B	164	13.875	80.052	99.028	1.00	54.32	B
ATOM	2992	CG1	ILE	B	164	14.678	77.763	98.348	1.00	54.32	B
ATOM	2993	CD	ILE	B	164	16.115	77.780	98.826	1.00	54.32	B
ATOM	2994	C	ILE	B	164	13.199	77.979	95.831	1.00	83.16	B
ATOM	2995	O	ILE	B	164	14.308	77.455	95.703	1.00	83.16	B
ATOM	2996	N	PRO	B	165	12.188	77.724	94.982	1.00	89.68	B
ATOM	2997	CD	PRO	B	165	10.966	78.534	94.853	1.00	34.51	B
ATOM	2998	CA	PRO	B	165	12.291	76.797	93.855	1.00	89.68	B
ATOM	2999	CB	PRO	B	165	10.987	77.035	93.096	1.00	34.51	B
ATOM	3000	CG	PRO	B	165	10.694	78.458	93.371	1.00	34.51	B
ATOM	3001	C	PRO	B	165	13.531	76.951	92.975	1.00	89.68	B
ATOM	3002	O	PRO	B	165	13.738	77.969	92.311	1.00	89.68	B
ATOM	3003	N	VAL	B	166	14.349	75.909	92.990	1.00	93.92	B
ATOM	3004	CA	VAL	B	166	15.572	75.852	92.215	1.00	93.92	B
ATOM	3005	CB	VAL	B	166	16.404	74.635	92.638	1.00	34.28	B
ATOM	3006	CG1	VAL	B	166	17.695	74.570	91.845	1.00	34.28	B
ATOM	3007	CG2	VAL	B	166	16.691	74.705	94.124	1.00	34.28	B
ATOM	3008	C	VAL	B	166	15.209	75.699	90.747	1.00	93.92	B
ATOM	3009	O	VAL	B	166	14.030	75.601	90.398	1.00	93.92	B
ATOM	3010	N	ASP	B	167	16.224	75.680	89.888	1.00	54.81	B
ATOM	3011	CA	ASP	B	167	16.001	75.515	88.460	1.00	54.81	B
ATOM	3012	CB	ASP	B	167	17.027	76.309	87.649	1.00	79.60	B
ATOM	3013	CG	ASP	B	167	16.789	77.801	87.714	1.00	79.60	B
ATOM	3014	OD1	ASP	B	167	15.643	78.220	87.437	1.00	79.60	B
ATOM	3015	OD2	ASP	B	167	17.744	78.546	88.037	1.00	79.60	B
ATOM	3016	C	ASP	B	167	16.089	74.042	88.102	1.00	54.81	B
ATOM	3017	O	ASP	B	167	16.657	73.231	88.840	1.00	54.81	B
ATOM	3018	N	ALA	B	168	15.533	73.699	86.953	1.00	35.06	B
ATOM	3019	CA	ALA	B	168	15.530	72.319	86.520	1.00	35.06	B
ATOM	3020	CB	ALA	B	168	14.148	71.957	86.055	1.00	82.11	B
ATOM	3021	C	ALA	B	168	16.536	71.986	85.431	1.00	35.06	B
ATOM	3022	O	ALA	B	168	16.595	72.639	84.390	1.00	35.06	B
ATOM	3023	N	ILE	B	169	17.314	70.945	85.672	1.00	64.88	B
ATOM	3024	CA	ILE	B	169	18.298	70.515	84.709	1.00	64.88	B
ATOM	3025	CB	ILE	B	169	19.728	70.753	85.232	1.00	96.76	B
ATOM	3026	CG2	ILE	B	169	20.131	72.181	84.980	1.00	96.76	B
ATOM	3027	CG1	ILE	B	169	19.813	70.443	86.730	1.00	96.76	B
ATOM	3028	CD	ILE	B	169	19.959	68.976	87.076	1.00	96.76	B
ATOM	3029	C	ILE	B	169	18.111	69.048	84.410	1.00	64.88	B
ATOM	3030	O	ILE	B	169	19.037	68.259	84.571	1.00	64.88	B
ATOM	3031	N	PHE	B	170	16.906	68.665	83.998	1.00	36.37	B
ATOM	3032	CA	PHE	B	170	16.683	67.265	83.656	1.00	36.37	B
ATOM	3033	CB	PHE	B	170	15.251	66.815	83.946	1.00	77.26	B
ATOM	3034	CG	PHE	B	170	14.299	67.930	84.272	1.00	77.26	B
ATOM	3035	CD1	PHE	B	170	13.755	68.717	83.264	1.00	77.26	B
ATOM	3036	CD2	PHE	B	170	13.869	68.131	85.584	1.00	77.26	B
ATOM	3037	CE1	PHE	B	170	12.784	69.682	83.557	1.00	77.26	B
ATOM	3038	CE2	PHE	B	170	12.904	69.089	85.880	1.00	77.26	B
ATOM	3039	CZ	PHE	B	170	12.359	69.864	84.863	1.00	77.26	B
ATOM	3040	C	PHE	B	170	17.009	67.059	82.197	1.00	36.37	B
ATOM	3041	O	PHE	B	170	16.539	67.801	81.350	1.00	36.37	B
ATOM	3042	N	SER	B	171	17.841	66.051	81.951	1.00	62.92	B
ATOM	3043	CA	SER	B	171	18.358	65.651	80.640	1.00	62.92	B
ATOM	3044	CB	SER	B	171	18.434	66.831	79.657	1.00	62.68	B
ATOM	3045	OG	SER	B	171	17.176	67.196	79.129	1.00	62.68	B
ATOM	3046	C	SER	B	171	19.786	65.250	80.962	1.00	62.92	B
ATOM	3047	O	SER	B	171	20.656	66.109	81.037	1.00	62.92	B
ATOM	3048	N	PRO	B	172	20.048	63.960	81.206	1.00	94.48	B
ATOM	3049	CD	PRO	B	172	19.176	62.890	81.712	1.00	90.02	B
ATOM	3050	CA	PRO	B	172	21.449	63.660	81.501	1.00	94.48	B
ATOM	3051	CB	PRO	B	172	21.388	62.238	82.024	1.00	90.02	B
ATOM	3052	CG	PRO	B	172	20.071	62.220	82.728	1.00	90.02	B
ATOM	3053	C	PRO	B	172	22.345	63.828	80.254	1.00	94.48	B
ATOM	3054	O	PRO	B	172	23.250	63.029	80.000	1.00	94.48	B
ATOM	3055	N	VAL	B	173	22.057	64.872	79.473	1.00	92.81	B
ATOM	3056	CA	VAL	B	173	22.833	65.224	78.284	1.00	92.81	B
ATOM	3057	CB	VAL	B	173	22.018	65.161	76.960	1.00	51.56	B
ATOM	3058	CG1	VAL	B	173	21.733	63.730	76.600	1.00	51.56	B
ATOM	3059	CG2	VAL	B	173	20.733	65.957	77.084	1.00	51.56	B
ATOM	3060	C	VAL	B	173	23.348	66.648	78.451	1.00	92.81	B
ATOM	3061	O	VAL	B	173	22.621	67.618	78.231	1.00	92.81	B
ATOM	3062	N	ARG	B	174	24.601	66.766	78.873	1.00	100.07	B
ATOM	3063	CA	ARG	B	174	25.228	68.067	79.045	1.00	100.07	B
ATOM	3064	CB	ARG	B	174	26.141	68.072	80.270	1.00	100.07	B
ATOM	3065	CG	ARG	B	174	25.640	67.291	81.482	1.00	100.07	B
ATOM	3066	CD	ARG	B	174	25.106	68.215	82.555	1.00	100.07	B
ATOM	3067	NE	ARG	B	174	24.912	67.536	83.830	1.00	100.07	B
ATOM	3068	CZ	ARG	B	174	24.206	68.043	84.835	1.00	100.07	B
ATOM	3069	NH1	ARG	B	174	23.631	69.232	84.699	1.00	100.07	B
ATOM	3070	NH2	ARG	B	174	24.078	67.368	85.972	1.00	100.07	B



ATOM	3071	C	ARG	B	174	26.097	68.212	77.803	1.00100.07	B
ATOM	3072	O	ARG	B	174	27.015	67.416	77.607	1.00100.07	B
ATOM	3073	N	ARG	B	175	25.796	69.182	76.945	1.00 74.17	B
ATOM	3074	CA	ARG	B	175	26.609	69.394	75.746	1.00 74.17	B
ATOM	3075	CB	ARG	B	175	28.078	69.481	76.168	1.00 38.79	B
ATOM	3076	CG	ARG	B	175	29.043	69.844	75.084	1.00 38.79	B
ATOM	3077	CD	ARG	B	175	30.429	70.017	75.644	1.00 38.79	B
ATOM	3078	NE	ARG	B	175	31.346	70.404	74.587	1.00 38.79	B
ATOM	3079	CZ	ARG	B	175	32.663	70.394	74.709	1.00 38.79	B
ATOM	3080	NH1	ARG	B	175	33.219	70.018	75.851	1.00 38.79	B
ATOM	3081	NH2	ARG	B	175	33.423	70.740	73.682	1.00 38.79	B
ATOM	3082	C	ARG	B	175	26.457	68.356	74.625	1.00 74.17	B
ATOM	3083	O	ARG	B	175	26.337	67.167	74.894	1.00 74.17	B
ATOM	3084	N	VAL	B	176	26.481	68.827	73.374	1.00 73.32	B
ATOM	3085	CA	VAL	B	176	26.354	67.986	72.168	1.00 73.32	B
ATOM	3086	CB	VAL	B	176	24.870	67.629	71.870	1.00 75.21	B
ATOM	3087	CG1	VAL	B	176	24.740	66.997	70.486	1.00 75.21	B
ATOM	3088	CG2	VAL	B	176	24.342	66.675	72.922	1.00 75.21	B
ATOM	3089	C	VAL	B	176	26.924	68.687	70.919	1.00 73.32	B
ATOM	3090	O	VAL	B	176	26.322	69.634	70.403	1.00 73.32	B
ATOM	3091	N	ALA	B	177	28.072	68.213	70.436	1.00100.07	B
ATOM	3092	CA	ALA	B	177	28.715	68.785	69.248	1.00100.07	B
ATOM	3093	CB	ALA	B	177	29.906	69.654	69.661	1.00100.07	B
ATOM	3094	C	ALA	B	177	29.175	67.684	68.281	1.00100.07	B
ATOM	3095	O	ALA	B	177	29.308	66.525	68.679	1.00100.07	B
ATOM	3096	N	PHE	B	178	29.441	68.051	67.025	1.00 43.26	B
ATOM	3097	CA	PHE	B	178	29.835	67.070	66.013	1.00 43.26	B
ATOM	3098	CB	PHE	B	178	28.632	66.240	65.639	1.00 35.05	B
ATOM	3099	CG	PHE	B	178	27.584	67.029	64.936	1.00 35.05	B
ATOM	3100	CD1	PHE	B	178	27.631	67.202	63.564	1.00 35.05	B
ATOM	3101	CD2	PHE	B	178	26.580	67.650	65.653	1.00 35.05	B
ATOM	3102	CE1	PHE	B	178	26.683	67.987	62.915	1.00 35.05	B
ATOM	3103	CE2	PHE	B	178	25.634	68.435	65.014	1.00 35.05	B
ATOM	3104	CZ	PHE	B	178	25.683	68.606	63.641	1.00 35.05	B
ATOM	3105	C	PHE	B	178	30.310	67.741	64.739	1.00 43.26	B
ATOM	3106	O	PHE	B	178	29.889	68.850	64.435	1.00 43.26	B
ATOM	3107	N	GLN	B	179	31.136	67.051	63.959	1.00 38.06	B
ATOM	3108	CA	GLN	B	179	31.611	67.643	62.714	1.00 38.06	B
ATOM	3109	CB	GLN	B	179	32.986	68.313	62.899	1.00100.07	B
ATOM	3110	CG	GLN	B	179	34.162	67.389	63.204	1.00100.07	B
ATOM	3111	CD	GLN	B	179	35.513	68.090	63.038	1.00100.07	B
ATOM	3112	OE1	GLN	B	179	35.650	69.279	63.337	1.00100.07	B
ATOM	3113	NE2	GLN	B	179	36.516	67.350	62.574	1.00100.07	B
ATOM	3114	C	GLN	B	179	31.659	66.744	61.494	1.00 38.06	B
ATOM	3115	O	GLN	B	179	32.255	65.671	61.518	1.00 38.06	B
ATOM	3116	N	VAL	B	180	31.049	67.227	60.416	1.00 32.81	B
ATOM	3117	CA	VAL	B	180	30.958	66.509	59.154	1.00 32.81	B
ATOM	3118	CB	VAL	B	180	29.708	66.997	58.367	1.00 57.30	B
ATOM	3119	CG1	VAL	B	180	29.811	68.502	58.089	1.00 57.30	B
ATOM	3120	CG2	VAL	B	180	29.548	66.195	57.084	1.00 57.30	B
ATOM	3121	C	VAL	B	180	32.217	66.620	58.278	1.00 32.81	B
ATOM	3122	O	VAL	B	180	32.298	67.459	57.374	1.00 32.81	B
ATOM	3123	N	GLU	B	181	33.189	65.751	58.550	1.00 53.70	B
ATOM	3124	CA	GLU	B	181	34.448	65.718	57.814	1.00 53.70	B
ATOM	3125	CB	GLU	B	181	35.491	64.914	58.573	1.00100.07	B
ATOM	3126	CG	GLU	B	181	36.276	65.714	59.569	1.00100.07	B
ATOM	3127	CD	GLU	B	181	37.403	64.901	60.167	1.00100.07	B
ATOM	3128	OE1	GLU	B	181	37.112	63.883	60.837	1.00100.07	B
ATOM	3129	OE2	GLU	B	181	38.580	65.276	59.959	1.00100.07	B
ATOM	3130	C	GLU	B	181	34.358	65.164	56.401	1.00 53.70	B
ATOM	3131	O	GLU	B	181	33.310	65.167	55.771	1.00 53.70	B
ATOM	3132	N	ASP	B	182	35.481	64.673	55.910	1.00 62.55	B
ATOM	3133	CA	ASP	B	182	35.517	64.133	54.576	1.00 62.55	B
ATOM	3134	CB	ASP	B	182	36.163	65.152	53.647	1.00 38.34	B
ATOM	3135	CG	ASP	B	182	35.158	66.105	53.079	1.00 38.34	B
ATOM	3136	OD1	ASP	B	182	33.967	65.850	53.352	1.00 38.34	B
ATOM	3137	OD2	ASP	B	182	35.534	67.074	52.365	1.00 38.34	B
ATOM	3138	C	ASP	B	182	36.195	62.775	54.422	1.00 62.55	B
ATOM	3139	O	ASP	B	182	37.403	62.693	54.183	1.00 62.55	B
ATOM	3140	N	THR	B	183	35.423	61.702	54.575	1.00 47.37	B
ATOM	3141	CA	THR	B	183	35.984	60.369	54.399	1.00 47.37	B
ATOM	3142	CB	THR	B	183	35.006	59.252	54.821	1.00 99.56	B
ATOM	3143	OG1	THR	B	183	34.865	59.248	56.245	1.00 99.56	B
ATOM	3144	CG2	THR	B	183	35.525	57.894	54.375	1.00 99.56	B
ATOM	3145	C	THR	B	183	36.194	60.313	52.888	1.00 47.37	B
ATOM	3146	O	THR	B	183	35.378	60.844	52.113	1.00 47.37	B
ATOM	3147	N	ARG	B	184	37.277	59.671	52.461	1.00 59.20	B
ATOM	3148	CA	ARG	B	184	37.554	59.632	51.041	1.00 59.20	B
ATOM	3149	CB	ARG	B	184	38.788	60.510	50.720	1.00100.07	B
ATOM	3150	CG	ARG	B	184	39.992	60.404	51.680	1.00100.07	B
ATOM	3151	CD	ARG	B	184	41.190	61.266	51.203	1.00100.07	B
ATOM	3152	NE	ARG	B	184	42.352	61.199	52.101	1.00100.07	B
ATOM	3153	CZ	ARG	B	184	43.544	61.740	51.840	1.00100.07	B
ATOM	3154	NH1	ARG	B	184	43.747	62.394	50.701	1.00100.07	B



ATOM	3155	NH2	ARG	B	184	44.534	61.633	52.721	1.00100.07	B
ATOM	3156	C	ARG	B	184	37.633	58.367	50.219	1.00 59.20	B
ATOM	3157	O	ARG	B	184	38.097	58.418	49.084	1.00 59.20	B
ATOM	3158	N	LEU	B	185	37.191	57.236	50.748	1.00100.07	B
ATOM	3159	CA	LEU	B	185	37.232	56.028	49.937	1.00100.07	B
ATOM	3160	CB	LEU	B	185	37.320	54.768	50.811	1.00100.07	B
ATOM	3161	CG	LEU	B	185	37.645	53.426	50.121	1.00100.07	B
ATOM	3162	CD1	LEU	B	185	38.340	53.635	48.765	1.00100.07	B
ATOM	3163	CD2	LEU	B	185	38.521	52.594	51.060	1.00100.07	B
ATOM	3164	C	LEU	B	185	35.957	56.062	49.124	1.00100.07	B
ATOM	3165	O	LEU	B	185	35.588	57.137	48.645	1.00100.07	B
ATOM	3166	N	GLY	B	186	35.260	54.933	48.994	1.00 99.96	B
ATOM	3167	CA	GLY	B	186	34.074	54.934	48.156	1.00 99.96	B
ATOM	3168	C	GLY	B	186	34.675	55.719	47.009	1.00 99.96	B
ATOM	3169	O	GLY	B	186	35.829	55.470	46.633	1.00 99.96	B
ATOM	3170	N	GLN	B	187	33.943	56.673	46.455	1.00 99.57	B
ATOM	3171	CA	GLN	B	187	34.557	57.492	45.428	1.00 99.57	B
ATOM	3172	CB	GLN	B	187	34.412	56.898	44.023	1.00100.07	B
ATOM	3173	CG	GLN	B	187	35.795	56.577	43.378	1.00100.07	B
ATOM	3174	CD	GLN	B	187	36.923	57.556	43.791	1.00100.07	B
ATOM	3175	OE1	GLN	B	187	37.484	57.466	44.891	1.00100.07	B
ATOM	3176	NE2	GLN	B	187	37.245	58.488	42.902	1.00100.07	B
ATOM	3177	C	GLN	B	187	34.179	58.950	45.440	1.00 99.57	B
ATOM	3178	O	GLN	B	187	33.039	59.332	45.721	1.00 99.57	B
ATOM	3179	N	ARG	B	188	35.195	59.743	45.129	1.00 99.66	B
ATOM	3180	CA	ARG	B	188	35.143	61.188	45.132	1.00 99.66	B
ATOM	3181	CB	ARG	B	188	33.701	61.725	45.252	1.00100.07	B
ATOM	3182	CG	ARG	B	188	32.757	61.473	44.071	1.00100.07	B
ATOM	3183	CD	ARG	B	188	31.370	62.082	44.347	1.00100.07	B
ATOM	3184	NE	ARG	B	188	30.927	62.984	43.280	1.00100.07	B
ATOM	3185	CZ	ARG	B	188	29.800	63.692	43.314	1.00100.07	B
ATOM	3186	NH1	ARG	B	188	28.997	63.605	44.365	1.00100.07	B
ATOM	3187	NH2	ARG	B	188	29.470	64.477	42.293	1.00100.07	B
ATOM	3188	C	ARG	B	188	35.886	61.498	46.422	1.00 99.66	B
ATOM	3189	O	ARG	B	188	36.796	60.768	46.823	1.00 99.66	B
ATOM	3190	N	THR	B	189	35.474	62.573	47.076	1.00 98.98	B
ATOM	3191	CA	THR	B	189	36.058	62.983	48.333	1.00 98.98	B
ATOM	3192	CB	THR	B	189	37.406	63.686	48.114	1.00 51.63	B
ATOM	3193	OG1	THR	B	189	37.983	63.237	46.881	1.00 51.63	B
ATOM	3194	CG2	THR	B	189	38.369	63.355	49.257	1.00 51.63	B
ATOM	3195	C	THR	B	189	35.031	63.960	48.857	1.00 98.98	B
ATOM	3196	O	THR	B	189	35.329	64.845	49.653	1.00 98.98	B
ATOM	3197	N	ASP	B	190	33.809	63.789	48.366	1.00 43.16	B
ATOM	3198	CA	ASP	B	190	32.688	64.614	48.765	1.00 43.16	B
ATOM	3199	CB	ASP	B	190	31.751	64.831	47.586	1.00 79.99	B
ATOM	3200	CG	ASP	B	190	32.479	65.324	46.361	1.00 79.99	B
ATOM	3201	OD1	ASP	B	190	33.289	66.263	46.502	1.00 79.99	B
ATOM	3202	OD2	ASP	B	190	32.240	64.783	45.257	1.00 79.99	B
ATOM	3203	C	ASP	B	190	31.948	63.919	49.901	1.00 43.16	B
ATOM	3204	O	ASP	B	190	31.161	64.545	50.621	1.00 43.16	B
ATOM	3205	N	LEU	B	191	32.240	62.631	50.072	1.00 54.68	B
ATOM	3206	CA	LEU	B	191	31.609	61.788	51.083	1.00 54.68	B
ATOM	3207	CB	LEU	B	191	32.085	60.363	50.871	1.00 32.62	B
ATOM	3208	CG	LEU	B	191	31.728	59.969	49.439	1.00 32.62	B
ATOM	3209	CD1	LEU	B	191	32.125	58.538	49.153	1.00 32.62	B
ATOM	3210	CD2	LEU	B	191	30.240	60.144	49.247	1.00 32.62	B
ATOM	3211	C	LEU	B	191	31.773	62.188	52.548	1.00 54.68	B
ATOM	3212	O	LEU	B	191	32.863	62.083	53.112	1.00 54.68	B
ATOM	3213	N	ASP	B	192	30.666	62.622	53.154	1.00 56.67	B
ATOM	3214	CA	ASP	B	192	30.616	63.063	54.552	1.00 56.67	B
ATOM	3215	CB	ASP	B	192	29.190	63.505	54.903	1.00 66.03	B
ATOM	3216	CG	ASP	B	192	28.745	64.727	54.116	1.00 66.03	B
ATOM	3217	OD1	ASP	B	192	29.508	65.167	53.227	1.00 66.03	B
ATOM	3218	OD2	ASP	B	192	27.635	65.243	54.383	1.00 66.03	B
ATOM	3219	C	ASP	B	192	31.080	62.007	55.554	1.00 56.67	B
ATOM	3220	O	ASP	B	192	31.352	60.865	55.182	1.00 56.67	B
ATOM	3221	N	LYS	B	193	31.160	62.405	56.825	1.00 24.44	B
ATOM	3222	CA	LYS	B	193	31.598	61.524	57.902	1.00 24.44	B
ATOM	3223	CB	LYS	B	193	33.104	61.303	57.834	1.00 62.39	B
ATOM	3224	CG	LYS	B	193	33.637	60.548	59.031	1.00 62.39	B
ATOM	3225	CD	LYS	B	193	35.078	60.165	58.836	1.00 62.39	B
ATOM	3226	CE	LYS	B	193	35.466	59.022	59.747	1.00 62.39	B
ATOM	3227	NZ	LYS	B	193	36.737	58.393	59.292	1.00 62.39	B
ATOM	3228	C	LYS	B	193	31.254	62.168	59.239	1.00 24.44	B
ATOM	3229	O	LYS	B	193	32.036	62.955	59.762	1.00 24.44	B
ATOM	3230	N	LEU	B	194	30.109	61.807	59.811	1.00 74.01	B
ATOM	3231	CA	LEU	B	194	29.660	62.381	61.082	1.00 74.01	B
ATOM	3232	CB	LEU	B	194	28.415	61.656	61.592	1.00 60.97	B
ATOM	3233	CG	LEU	B	194	27.093	62.293	61.178	1.00 60.97	B
ATOM	3234	CD1	LEU	B	194	26.151	62.229	62.343	1.00 60.97	B
ATOM	3235	CD2	LEU	B	194	27.296	63.734	60.782	1.00 60.97	B
ATOM	3236	C	LEU	B	194	30.590	62.585	62.279	1.00 74.01	B
ATOM	3237	O	LEU	B	194	31.403	63.505	62.292	1.00 74.01	B
ATOM	3238	N	THR	B	195	30.418	61.741	63.294	1.00 32.39	B



ATOM	3239	CA	THR	B	195	31.168	61.788	64.560	1.00	32.39	B
ATOM	3240	CB	THR	B	195	32.573	62.420	64.443	1.00	35.71	B
ATOM	3241	OG1	THR	B	195	33.113	62.192	63.140	1.00	35.71	B
ATOM	3242	CG2	THR	B	195	33.501	61.817	65.470	1.00	35.71	B
ATOM	3243	C	THR	B	195	30.405	62.682	65.533	1.00	32.39	B
ATOM	3244	O	THR	B	195	30.448	63.902	65.412	1.00	32.39	B
ATOM	3245	N	LEU	B	196	29.686	62.078	66.474	1.00	77.38	B
ATOM	3246	CA	LEU	B	196	28.937	62.821	67.490	1.00	77.38	B
ATOM	3247	CB	LEU	B	196	27.503	62.305	67.603	1.00	58.80	B
ATOM	3248	CG	LEU	B	196	26.441	62.921	66.705	1.00	58.80	B
ATOM	3249	CD1	LEU	B	196	27.034	63.307	65.374	1.00	58.80	B
ATOM	3250	CD2	LEU	B	196	25.319	61.923	66.531	1.00	58.80	B
ATOM	3251	C	LEU	B	196	29.662	62.521	68.793	1.00	77.38	B
ATOM	3252	O	LEU	B	196	30.028	61.371	69.054	1.00	77.38	B
ATOM	3253	N	ARG	B	197	29.875	63.536	69.619	1.00	31.83	B
ATOM	3254	CA	ARG	B	197	30.563	63.283	70.869	1.00	31.83	B
ATOM	3255	CB	ARG	B	197	31.742	64.232	70.995	1.00	99.56	B
ATOM	3256	CG	ARG	B	197	31.445	65.622	70.537	1.00	99.56	B
ATOM	3257	CD	ARG	B	197	32.713	66.429	70.491	1.00	99.56	B
ATOM	3258	NE	ARG	B	197	32.691	67.361	69.373	1.00	99.56	B
ATOM	3259	CZ	ARG	B	197	33.640	68.254	69.124	1.00	99.56	B
ATOM	3260	NH1	ARG	B	197	34.697	68.345	69.923	1.00	99.56	B
ATOM	3261	NH2	ARG	B	197	33.530	69.051	68.068	1.00	99.56	B
ATOM	3262	C	ARG	B	197	29.697	63.346	72.122	1.00	31.83	B
ATOM	3263	O	ARG	B	197	30.217	63.306	73.230	1.00	31.83	B
ATOM	3264	N	ILE	B	198	28.383	63.425	71.927	1.00	14.50	B
ATOM	3265	CA	ILE	B	198	27.396	63.474	73.005	1.00	14.50	B
ATOM	3266	CB	ILE	B	198	26.389	62.311	72.908	1.00	39.02	B
ATOM	3267	CG2	ILE	B	198	25.250	62.539	73.860	1.00	39.02	B
ATOM	3268	CG1	ILE	B	198	25.835	62.204	71.481	1.00	39.02	B
ATOM	3269	CD	ILE	B	198	25.264	63.497	70.916	1.00	39.02	B
ATOM	3270	C	ILE	B	198	28.108	63.381	74.319	1.00	14.50	B
ATOM	3271	O	ILE	B	198	28.323	62.289	74.840	1.00	14.50	B
ATOM	3272	N	TRP	B	199	28.482	64.556	74.826	1.00	99.86	B
ATOM	3273	CA	TRP	B	199	29.225	64.710	76.068	1.00	99.86	B
ATOM	3274	CB	TRP	B	199	29.499	66.179	76.356	1.00	59.10	B
ATOM	3275	CG	TRP	B	199	30.839	66.521	75.920	1.00	59.10	B
ATOM	3276	CD2	TRP	B	199	32.049	66.258	76.631	1.00	59.10	B
ATOM	3277	CE2	TRP	B	199	33.112	66.662	75.802	1.00	59.10	B
ATOM	3278	CE3	TRP	B	199	32.340	65.720	77.894	1.00	59.10	B
ATOM	3279	CD1	TRP	B	19						



ATOM	3323	C	THR	B	205	24.348	57.635	77.673	1.00	50.50	B
ATOM	3324	O	THR	B	205	23.270	57.293	77.172	1.00	50.50	B
ATOM	3325	N	PRO	B	206	25.261	58.352	76.998	1.00	43.13	B
ATOM	3326	CD	PRO	B	206	26.627	58.645	77.464	1.00	100.07	B
ATOM	3327	CA	PRO	B	206	25.077	58.786	75.611	1.00	43.13	B
ATOM	3328	CB	PRO	B	206	26.482	59.241	75.199	1.00	100.07	B
ATOM	3329	CG	PRO	B	206	27.402	58.539	76.194	1.00	100.07	B
ATOM	3330	C	PRO	B	206	24.523	57.671	74.734	1.00	43.13	B
ATOM	3331	O	PRO	B	206	23.477	57.834	74.094	1.00	43.13	B
ATOM	3332	N	LEU	B	207	25.228	56.539	74.719	1.00	99.23	B
ATOM	3333	CA	LEU	B	207	24.818	55.379	73.933	1.00	99.23	B
ATOM	3334	CB	LEU	B	207	25.383	54.090	74.553	1.00	83.32	B
ATOM	3335	CG	LEU	B	207	26.693	54.157	75.352	1.00	83.32	B
ATOM	3336	CD1	LEU	B	207	27.121	52.755	75.746	1.00	83.32	B
ATOM	3337	CD2	LEU	B	207	27.776	54.817	74.534	1.00	83.32	B
ATOM	3338	C	LEU	B	207	23.304	55.371	74.014	1.00	99.23	B
ATOM	3339	O	LEU	B	207	22.608	55.505	73.006	1.00	99.23	B
ATOM	3340	N	GLU	B	208	22.812	55.256	75.241	1.00	58.63	B
ATOM	3341	CA	GLU	B	208	21.389	55.238	75.502	1.00	58.63	B
ATOM	3342	CB	GLU	B	208	21.177	55.007	76.990	1.00	99.97	B
ATOM	3343	CG	GLU	B	208	21.996	53.829	77.496	1.00	99.97	B
ATOM	3344	CD	GLU	B	208	22.353	53.957	78.960	1.00	99.97	B
ATOM	3345	OE1	GLU	B	208	22.448	55.110	79.431	1.00	99.97	B
ATOM	3346	OE2	GLU	B	208	22.559	52.917	79.629	1.00	99.97	B
ATOM	3347	C	GLU	B	208	20.771	56.558	75.041	1.00	58.63	B
ATOM	3348	O	GLU	B	208	19.789	56.570	74.299	1.00	58.63	B
ATOM	3349	N	ALA	B	209	21.368	57.668	75.462	1.00	50.18	B
ATOM	3350	CA	ALA	B	209	20.877	58.991	75.092	1.00	50.18	B
ATOM	3351	CB	ALA	B	209	21.902	60.045	75.465	1.00	17.32	B
ATOM	3352	C	ALA	B	209	20.584	59.066	73.606	1.00	50.18	B
ATOM	3353	O	ALA	B	209	19.504	59.505	73.204	1.00	50.18	B
ATOM	3354	N	LEU	B	210	21.551	58.620	72.804	1.00	86.85	B
ATOM	3355	CA	LEU	B	210	21.452	58.639	71.345	1.00	86.85	B
ATOM	3356	CB	LEU	B	210	22.800	58.266	70.722	1.00	41.12	B
ATOM	3357	CG	LEU	B	210	22.734	57.913	69.232	1.00	41.12	B
ATOM	3358	CD1	LEU	B	210	22.029	59.007	68.449	1.00	41.12	B
ATOM	3359	CD2	LEU	B	210	24.132	57.687	68.708	1.00	41.12	B
ATOM	3360	C	LEU	B	210	20.344	57.772	70.738	1.00	86.85	B
ATOM	3361	O	LEU	B	210	19.483	58.278	70.011	1.00	86.85	B
ATOM	3362	N	ASN	B	211	20.375	56.468	71.002	1.00	97.57	B
ATOM	3363	CA	ASN	B	211	19.339	55.597	70.464	1.00	97.57	B
ATOM	3364	CB	ASN	B	211	19.578	54.144	70.872	1.00	43.62	B
ATOM	3365	CG	ASN	B	211	20.712	53.501	70.088	1.00	43.62	B
ATOM	3366	OD1	ASN	B	211	20.635	53.344	68.861	1.00	43.62	B
ATOM	3367	ND2	ASN	B	211	21.776	53.129	70.790	1.00	43.62	B
ATOM	3368	C	ASN	B	211	18.025	56.104	71.017	1.00	97.57	B
ATOM	3369	O	ASN	B	211	16.987	56.053	70.351	1.00	97.57	B
ATOM	3370	N	GLN	B	212	18.087	56.615	72.242	1.00	83.52	B
ATOM	3371	CA	GLN	B	212	16.916	57.170	72.883	1.00	83.52	B
ATOM	3372	CB	GLN	B	212	17.201	57.487	74.346	1.00	62.48	B
ATOM	3373	CG	GLN	B	212	17.271	56.262	75.233	1.00	62.48	B
ATOM	3374	CD	GLN	B	212	17.292	56.619	76.703	1.00	62.48	B
ATOM	3375	OE1	GLN	B	212	16.398	57.310	77.202	1.00	62.48	B
ATOM	3376	NE2	GLN	B	212	18.308	56.147	77.408	1.00	62.48	B
ATOM	3377	C	GLN	B	212	16.536	58.437	72.151	1.00	83.52	B
ATOM	3378	O	GLN	B	212	15.401	58.885	72.238	1.00	83.52	B
ATOM	3379	N	ALA	B	213	17.494	59.004	71.422	1.00	61.59	B
ATOM	3380	CA	ALA	B	213	17.270	60.236	70.675	1.00	61.59	B
ATOM	3381	CB	ALA	B	213	18.589	60.956	70.460	1.00	62.72	B
ATOM	3382	C	ALA	B	213	16.611	59.946	69.342	1.00	61.59	B
ATOM	3383	O	ALA	B	213	15.651	60.607	68.953	1.00	61.59	B
ATOM	3384	N	VAL	B	214	17.145	58.961	68.636	1.00	47.91	B
ATOM	3385	CA	VAL	B	214	16.601	58.567	67.345	1.00	47.91	B
ATOM	3386	CB	VAL	B	214	17.178	57.228	66.930	1.00	47.00	B
ATOM	3387	CG1	VAL	B	214	16.548	56.774	65.648	1.00	47.00	B
ATOM	3388	CG2	VAL	B	214	18.677	57.347	66.798	1.00	47.00	B
ATOM	3389	C	VAL	B	214	15.093	58.413	67.489	1.00	47.91	B
ATOM	3390	O	VAL	B	214	14.301	59.113	66.855	1.00	47.91	B
ATOM	3391	N	ALA	B	215	14.726	57.481	68.356	1.00	44.43	B
ATOM	3392	CA	ALA	B	215	13.343	57.157	68.658	1.00	44.43	B
ATOM	3393	CB	ALA	B	215	13.250	56.718	70.106	1.00	100.07	B
ATOM	3394	C	ALA	B	215	12.304	58.247	68.390	1.00	44.43	B
ATOM	3395	O	ALA	B	215	11.409	58.072	67.563	1.00	44.43	B
ATOM	3396	N	ILE	B	216	12.424	59.358	69.109	1.00	44.46	B
ATOM	3397	CA	ILE	B	216	11.488	60.479	68.996	1.00	44.46	B
ATOM	3398	CB	ILE	B	216	11.940	61.708	69.839	1.00	28.99	B
ATOM	3399	CG2	ILE	B	216	10.747	62.624	70.115	1.00	28.99	B
ATOM	3400	CG1	ILE	B	216	12.558	61.260	71.166	1.00	28.99	B
ATOM	3401	CD	ILE	B	216	13.887	60.591	71.008	1.00	28.99	B
ATOM	3402	C	ILE	B	216	11.351	60.973	67.566	1.00	44.46	B
ATOM	3403	O	ILE	B	216	10.248	61.063	67.021	1.00	44.46	B
ATOM	3404	N	LEU	B	217	12.486	61.335	66.980	1.00	80.63	B
ATOM	3405	CA	LEU	B	217	12.501	61.818	65.616	1.00	80.63	B
ATOM	3406	CB	LEU	B	217	13.935	62.049	65.149	1.00	65.28	B



ATOM	3407	CG	LEU	B	217	14.051	62.148	63.627	1.00	65.28	B
ATOM	3408	CD1	LEU	B	217	13.182	63.301	63.122	1.00	65.28	B
ATOM	3409	CD2	LEU	B	217	15.513	62.319	63.227	1.00	65.28	B
ATOM	3410	C	LEU	B	217	11.832	60.761	64.755	1.00	80.63	B
ATOM	3411	O	LEU	B	217	10.972	61.058	63.922	1.00	80.63	B
ATOM	3412	N	LYS	B	218	12.241	59.519	64.981	1.00	92.37	B
ATOM	3413	CA	LYS	B	218	11.706	58.373	64.269	1.00	92.37	B
ATOM	3414	CB	LYS	B	218	12.358	57.110	64.829	1.00	100.07	B
ATOM	3415	CG	LYS	B	218	12.257	55.867	63.972	1.00	100.07	B
ATOM	3416	CD	LYS	B	218	13.025	54.735	64.654	1.00	100.07	B
ATOM	3417	CE	LYS	B	218	12.794	53.374	64.007	1.00	100.07	B
ATOM	3418	NZ	LYS	B	218	13.420	52.274	64.806	1.00	100.07	B
ATOM	3419	C	LYS	B	218	10.199	58.376	64.522	1.00	92.37	B
ATOM	3420	O	LYS	B	218	9.414	58.637	63.612	1.00	92.37	B
ATOM	3421	N	GLU	B	219	9.801	58.133	65.769	1.00	79.01	B
ATOM	3422	CA	GLU	B	219	8.386	58.099	66.113	1.00	79.01	B
ATOM	3423	CB	GLU	B	219	8.196	57.858	67.612	1.00	100.07	B
ATOM	3424	CG	GLU	B	219	8.450	59.058	68.500	1.00	100.07	B
ATOM	3425	CD	GLU	B	219	8.105	58.780	69.964	1.00	100.07	B
ATOM	3426	OE1	GLU	B	219	8.764	57.912	70.583	1.00	100.07	B
ATOM	3427	OE2	GLU	B	219	7.172	59.423	70.497	1.00	100.07	B
ATOM	3428	C	GLU	B	219	7.631	59.345	65.689	1.00	79.01	B
ATOM	3429	O	GLU	B	219	6.407	59.329	65.600	1.00	79.01	B
ATOM	3430	N	HIS	B	220	8.357	60.424	65.426	1.00	99.82	B
ATOM	3431	CA	HIS	B	220	7.730	61.662	64.990	1.00	99.82	B
ATOM	3432	CB	HIS	B	220	8.626	62.848	65.334	1.00	99.10	B
ATOM	3433	CG	HIS	B	220	8.309	63.475	66.654	1.00	99.10	B
ATOM	3434	CD2	HIS	B	220	8.813	63.255	67.890	1.00	99.10	B
ATOM	3435	ND1	HIS	B	220	7.335	64.441	66.806	1.00	99.10	B
ATOM	3436	CE1	HIS	B	220	7.256	64.789	68.079	1.00	99.10	B
ATOM	3437	NE2	HIS	B	220	8.143	64.083	68.757	1.00	99.10	B
ATOM	3438	C	HIS	B	220	7.464	61.605	63.493	1.00	99.82	B
ATOM	3439	O	HIS	B	220	6.385	61.984	63.032	1.00	99.82	B
ATOM	3440	N	LEU	B	221	8.441	61.120	62.733	1.00	59.35	B
ATOM	3441	CA	LEU	B	221	8.285	61.021	61.287	1.00	59.35	B
ATOM	3442	CB	LEU	B	221	9.488	60.320	60.672	1.00	41.22	B
ATOM	3443	CG	LEU	B	221	10.769	61.140	60.790	1.00	41.22	B
ATOM	3444	CD1	LEU	B	221	11.934	60.247	61.184	1.00	41.22	B
ATOM	3445	CD2	LEU	B	221	11.006	61.856	59.475	1.00	41.22	B
ATOM	3446	C	LEU	B	221	7.014	60.239	60.998	1.00	59.35	B
ATOM	3447	O	LEU	B	221						



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ATOM	3491	O	ASN	B	226	-2.819	61.102	57.696	1.00	83.64	B
ATOM	3492	N	PRO	B	227	-2.992	61.373	55.469	1.00	99.93	B
ATOM	3493	CD	PRO	B	227	-2.459	61.008	54.141	1.00100.07		B
ATOM	3494	CA	PRO	B	227	-3.383	62.783	55.503	1.00	99.93	B
ATOM	3495	CB	PRO	B	227	-2.469	63.390	54.457	1.00100.07		B
ATOM	3496	CG	PRO	B	227	-2.510	62.324	53.381	1.00100.07		B
ATOM	3497	C	PRO	B	227	-4.867	63.041	55.193	1.00	99.93	B
ATOM	3498	O	PRO	B	227	-5.677	62.114	55.106	1.00	99.93	B
ATOM	3499	N	GLU	B	228	-5.193	64.322	55.034	1.00	94.63	B
ATOM	3500	CA	GLU	B	228	-6.535	64.800	54.702	1.00	94.63	B
ATOM	3501	CB	GLU	B	228	-7.334	65.083	55.972	1.00100.07		B
ATOM	3502	CG	GLU	B	228	-7.381	63.944	56.966	1.00100.07		B
ATOM	3503	CD	GLU	B	228	-8.436	64.167	58.030	1.00100.07		B
ATOM	3504	OE1	GLU	B	228	-8.364	65.204	58.727	1.00100.07		B
ATOM	3505	OE2	GLU	B	228	-9.337	63.308	58.161	1.00100.07		B
ATOM	3506	C	GLU	B	228	-6.259	66.119	53.991	1.00	94.63	B
ATOM	3507	O	GLU	B	228	-5.305	66.805	54.344	1.00	94.63	B
ATOM	3508	N	ALA	B	229	-7.070	66.505	53.015	1.00	52.60	B
ATOM	3509	CA	ALA	B	229	-6.754	67.753	52.343	1.00	52.60	B
ATOM	3510	CB	ALA	B	229	-5.594	67.519	51.423	1.00	61.53	B
ATOM	3511	C	ALA	B	229	-7.841	68.485	51.583	1.00	52.60	B
ATOM	3512	O	ALA	B	229	-8.541	69.333	52.148	1.00	52.60	B
ATOM	3513	N	ALA	B	230	-7.935	68.183	50.286	1.00100.07		B
ATOM	3514	CA	ALA	B	230	-8.904	68.802	49.378	1.00100.07		B
ATOM	3515	CB	ALA	B	230	-10.315	68.785	50.000	1.00	86.00	B
ATOM	3516	C	ALA	B	230	-8.485	70.238	49.053	1.00100.07		B
ATOM	3517	O	ALA	B	230	-9.093	71.192	49.541	1.00100.07		B
ATOM	3518	N	ALA	B	231	-7.458	70.391	48.219	1.00	99.41	B
ATOM	3519	CA	ALA	B	231	-6.959	71.718	47.861	1.00	99.41	B
ATOM	3520	CB	ALA	B	231	-5.487	71.637	47.519	1.00	67.22	B
ATOM	3521	C	ALA	B	231	-7.708	72.376	46.712	1.00	99.41	B
ATOM	3522	O	ALA	B	231	-8.433	71.649	45.999	1.00	99.41	B
ATOM	3523	OT	ALA	B	231	-7.534	73.609	46.537	1.00	67.22	B
ATOM	3524	CB	ALA	C	2	8.451	96.575	31.813	1.00	53.37	C
ATOM	3525	C	ALA	C	2	10.543	97.948	31.601	1.00100.07		C
ATOM	3526	O	ALA	C	2	11.375	97.053	31.752	1.00100.07		C
ATOM	3527	N	ALA	C	2	9.353	97.162	29.585	1.00100.07		C
ATOM	3528	CA	ALA	C	2	9.179	97.641	30.982	1.00100.07		C
ATOM	3529	N	ILE	C	3	10.767	99.214	31.947	1.00	81.15	C
ATOM	3530	CA	ILE	C	3	12.023	99.650	32.559	1.00	81.15	C
ATOM	3531	CB	ILE	C	3	13.110	99.940	31.495	1.00	93.79	C
ATOM	3532	CG2	ILE	C	3	14.432	100.195	32.189	1.00	93.79	C
ATOM	3533	CG1	ILE	C	3	13.238	98.780	30.507	1.00	93.79	C
ATOM	3534	CD	ILE	C	3	14.326	98.989	29.475	1.00100.07		C
ATOM	3535	C	ILE	C	3	11.802	100.958	33.327	1.00	81.15	C
ATOM	3536	O	ILE	C	3	10.910	101.732	32.994	1.00	81.15	C
ATOM	3537	N	LYS	C	4	12.612	101.207	34.350	1.00	44.10	C
ATOM	3538	CA	LYS	C	4	12.499	102.454	35.094	1.00	44.10	C
ATOM	3539	CB	LYS	C	4	12.878	102.253	36.557	1.00100.07		C
ATOM	3540	CG	LYS	C	4	11.725	101.814	37.447	1.00100.07		C
ATOM	3541	CD	LYS	C	4	10.552	102.791	37.379	1.00100.07		C
ATOM	3542	CE	LYS	C	4	9.385	102.339	38.260	1.00100.07		C
ATOM	3543	NZ	LYS	C	4	8.140	103.097	37.957	1.00100.07		C
ATOM	3544	C	LYS	C	4	13.431	103.477	34.462	1.00	44.10	C
ATOM	3545	O	LYS	C	4	14.417	103.115	33.821	1.00	44.10	C
ATOM	3546	N	ARG	C	5	13.134	104.755	34.646	1.00	69.39	C
ATOM	3547	CA	ARG	C	5	13.965	105.793	34.055	1.00	69.39	C
ATOM	3548	CB	ARG	C	5	13.426	106.148	32.657	1.00100.07		C
ATOM	3549	CG	ARG	C	5	13.674	105.075	31.584	1.00100.07		C
ATOM	3550	CD	ARG	C	5	13.416	105.601	30.150	1.00100.07		C
ATOM	3551	NE	ARG	C	5	14.206	104.883	29.142	1.00100.07		C
ATOM	3552	CZ	ARG	C	5	14.259	105.194	27.846	1.00100.07		C
ATOM	3553	NH1	ARG	C	5	13.562	106.222	27.370	1.00100.07		C
ATOM	3554	NH2	ARG	C	5	15.026	104.479	27.027	1.00100.07		C
ATOM	3555	C	ARG	C	5	14.093	107.064	34.902	1.00	69.39	C
ATOM	3556	O	ARG	C	5	13.120	107.801	35.079	1.00	69.39	C
ATOM	3557	N	PHE	C	6	15.292	107.315	35.423	1.00100.07		C
ATOM	3558	CA	PHE	C	6	15.548	108.513	36.223	1.00100.07		C
ATOM	3559	CB	PHE	C	6	15.612	108.195	37.731	1.00	99.71	C
ATOM	3560	CG	PHE	C	6	15.918	106.737	38.077	1.00	99.71	C
ATOM	3561	CD1	PHE	C	6	16.705	105.933	37.252	1.00	99.71	C
ATOM	3562	CD2	PHE	C	6	15.452	106.193	39.283	1.00	99.71	C
ATOM	3563	CE1	PHE	C	6	17.019	104.621	37.626	1.00	99.71	C
ATOM	3564	CE2	PHE	C	6	15.765	104.890	39.656	1.00	99.71	C
ATOM	3565	CZ	PHE	C	6	16.549	104.106	38.829	1.00	99.71	C
ATOM	3566	C	PHE	C	6	16.846	109.201	35.809	1.00100.07		C
ATOM	3567	O	PHE	C	6	17.869	108.537	35.661	1.00100.07		C
ATOM	3568	N	GLY	C	7	16.807	110.527	35.636	1.00100.07		C
ATOM	3569	CA	GLY	C	7	17.999	111.262	35.234	1.00100.07		C
ATOM	3570	C	GLY	C	7	17.800	112.707	34.786	1.00100.07		C
ATOM	3571	O	GLY	C	7	16.872	113.377	35.236	1.00100.07		C
ATOM	3572	N	ARG	C	8	18.680	113.192	33.907	1.00100.07		C
ATOM	3573	CA	ARG	C	8	18.598	114.567	33.397	1.00100.07		C
ATOM	3574	CB	ARG	C	8	19.496	115.481	34.225	1.00100.07		C



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ATOM	3575	CG	ARG	C	8	18.927	115.746	35.607	1.00100.07	C
ATOM	3576	CD	ARG	C	8	19.469	117.043	36.189	1.00100.07	C
ATOM	3577	NE	ARG	C	8	18.818	117.431	37.441	1.00100.07	C
ATOM	3578	CZ	ARG	C	8	19.094	118.552	38.102	1.00100.07	C
ATOM	3579	NH1	ARG	C	8	20.008	119.390	37.630	1.00100.07	C
ATOM	3580	NH2	ARG	C	8	18.457	118.839	39.231	1.00100.07	C
ATOM	3581	C	ARG	C	8	18.882	114.767	31.894	1.00100.07	C
ATOM	3582	O	ARG	C	8	19.199	113.813	31.185	1.00100.07	C
ATOM	3583	N	ILE	C	9	18.751	116.014	31.431	1.00 85.07	C
ATOM	3584	CA	ILE	C	9	18.926	116.420	30.023	1.00 85.07	C
ATOM	3585	CB	ILE	C	9	20.126	117.398	29.855	1.00100.07	C
ATOM	3586	CG2	ILE	C	9	19.985	118.164	28.559	1.00100.07	C
ATOM	3587	CG1	ILE	C	9	20.143	118.438	30.981	1.00100.07	C
ATOM	3588	CD	ILE	C	9	20.695	117.922	32.299	1.00100.07	C
ATOM	3589	C	ILE	C	9	19.057	115.295	28.985	1.00 85.07	C
ATOM	3590	O	ILE	C	9	18.302	114.318	29.031	1.00 85.07	C
ATOM	3591	N	ARG	C	10	20.005	115.455	28.057	1.00 99.59	C
ATOM	3592	CA	ARG	C	10	20.296	114.509	26.965	1.00 99.59	C
ATOM	3593	CB	ARG	C	10	19.120	113.546	26.737	1.00100.07	C
ATOM	3594	CG	ARG	C	10	19.272	112.570	25.575	1.00100.07	C
ATOM	3595	CD	ARG	C	10	17.906	112.005	25.201	1.00100.07	C
ATOM	3596	NE	ARG	C	10	17.909	111.286	23.926	1.00100.07	C
ATOM	3597	CZ	ARG	C	10	16.810	110.992	23.233	1.00100.07	C
ATOM	3598	NH1	ARG	C	10	15.619	111.358	23.693	1.00100.07	C
ATOM	3599	NH2	ARG	C	10	16.895	110.335	22.080	1.00100.07	C
ATOM	3600	C	ARG	C	10	20.530	115.345	25.701	1.00 99.59	C
ATOM	3601	O	ARG	C	10	20.543	114.831	24.577	1.00 99.59	C
ATOM	3602	N	GLU	C	11	20.709	116.644	25.921	1.00 95.59	C
ATOM	3603	CA	GLU	C	11	20.938	117.651	24.886	1.00 95.59	C
ATOM	3604	CB	GLU	C	11	21.781	118.774	25.511	1.00100.07	C
ATOM	3605	CG	GLU	C	11	22.184	119.942	24.628	1.00100.07	C
ATOM	3606	CD	GLU	C	11	22.520	121.210	25.446	1.00100.07	C
ATOM	3607	OE1	GLU	C	11	22.983	121.095	26.608	1.00100.07	C
ATOM	3608	OE2	GLU	C	11	22.320	122.331	24.924	1.00100.07	C
ATOM	3609	C	GLU	C	11	21.563	117.139	23.587	1.00 95.59	C
ATOM	3610	O	GLU	C	11	21.159	117.543	22.499	1.00 95.59	C
ATOM	3611	N	VAL	C	12	22.512	116.218	23.702	1.00 56.92	C
ATOM	3612	CA	VAL	C	12	23.217	115.671	22.550	1.00 56.92	C
ATOM	3613	CB	VAL	C	12	24.625	116.262	22.499	1.00 43.85	C
ATOM	3614	CG1	VAL	C	12	25.498	115.474	21.577	1.00 43.85	C
ATOM	3615	CG2	VAL	C	12	24.546	117.685	22.058	1.00 43.85	C
ATOM	3616	C	VAL	C	12	23.328	114.146	22.545	1.00 56.92	C
ATOM	3617	O	VAL	C	12	23.437	113.518	23.598	1.00 56.92	C
ATOM	3618	N	ILE	C	13	23.300	113.553	21.355	1.00 99.52	C
ATOM	3619	CA	ILE	C	13	23.432	112.108	21.241	1.00 99.52	C
ATOM	3620	CB	ILE	C	13	23.132	111.590	19.820	1.00100.07	C
ATOM	3621	CG2	ILE	C	13	22.625	110.156	19.893	1.00100.07	C
ATOM	3622	CG1	ILE	C	13	22.054	112.449	19.155	1.00100.07	C
ATOM	3623	CD	ILE	C	13	22.575	113.725	18.488	1.00100.07	C
ATOM	3624	C	ILE	C	13	24.894	111.855	21.544	1.00 99.52	C
ATOM	3625	O	ILE	C	13	25.757	112.650	21.163	1.00 99.52	C
ATOM	3626	N	PRO	C	14	25.200	110.736	22.227	1.00100.07	C
ATOM	3627	CD	PRO	C	14	24.342	109.569	22.493	1.00100.07	C
ATOM	3628	CA	PRO	C	14	26.593	110.446	22.556	1.00100.07	C
ATOM	3629	CB	PRO	C	14	26.490	109.130	23.332	1.00100.07	C
ATOM	3630	CG	PRO	C	14	25.350	108.445	22.665	1.00100.07	C
ATOM	3631	C	PRO	C	14	27.476	110.327	21.320	1.00100.07	C
ATOM	3632	O	PRO	C	14	28.511	109.674	21.365	1.00100.07	C
ATOM	3633	N	LEU	C	15	27.078	110.958	20.219	1.00 99.37	C
ATOM	3634	CA	LEU	C	15	27.881	110.878	19.005	1.00 99.37	C
ATOM	3635	CB	LEU	C	15	29.251	111.501	19.246	1.00100.07	C
ATOM	3636	CG	LEU	C	15	30.244	111.561	18.075	1.00100.07	C
ATOM	3637	CD1	LEU	C	15	29.893	112.702	17.119	1.00100.07	C
ATOM	3638	CD2	LEU	C	15	31.651	111.754	18.636	1.00100.07	C
ATOM	3639	C	LEU	C	15	28.070	109.407	18.699	1.00 99.37	C
ATOM	3640	O	LEU	C	15	29.199	108.923	18.664	1.00 99.37	C
ATOM	3641	N	PRO	C	16	26.971	108.679	18.437	1.00100.07	C
ATOM	3642	CD	PRO	C	16	25.660	109.213	18.031	1.00100.07	C
ATOM	3643	CA	PRO	C	16	27.061	107.240	18.140	1.00100.07	C
ATOM	3644	CB	PRO	C	16	25.775	106.966	17.360	1.00100.07	C
ATOM	3645	CG	PRO	C	16	24.841	107.955	17.909	1.00100.07	C
ATOM	3646	C	PRO	C	16	28.302	106.699	17.406	1.00100.07	C
ATOM	3647	O	PRO	C	16	28.760	105.584	17.681	1.00100.07	C
ATOM	3648	N	PRO	C	17	28.854	107.471	16.450	1.00 99.96	C
ATOM	3649	CD	PRO	C	17	28.398	108.764	15.935	1.00 64.04	C
ATOM	3650	CA	PRO	C	17	30.028	107.035	15.703	1.00 99.96	C
ATOM	3651	CB	PRO	C	17	30.477	108.311	14.983	1.00 64.04	C
ATOM	3652	CG	PRO	C	17	29.696	109.415	15.628	1.00 64.04	C
ATOM	3653	C	PRO	C	17	31.161	106.357	16.457	1.00 99.96	C
ATOM	3654	O	PRO	C	17	31.907	105.604	15.853	1.00 99.96	C
ATOM	3655	N	LEU	C	18	31.301	106.626	17.752	1.00 50.16	C
ATOM	3656	CA	LEU	C	18	32.350	106.007	18.582	1.00 50.16	C
ATOM	3657	CB	LEU	C	18	31.787	104.823	19.361	1.00 59.86	C
ATOM	3658	CG	LEU	C	18	30.732	105.193	20.405	1.00 59.86	C



ATOM	3659	CD1	LEU	C	18	30.211	103.942	21.081	1.00	59.86	C
ATOM	3660	CD2	LEU	C	18	31.331	106.124	21.437	1.00	59.86	C
ATOM	3661	C	LEU	C	18	33.578	105.557	17.810	1.00	50.16	C
ATOM	3662	O	LEU	C	18	34.634	106.132	17.970	1.00	50.16	C
ATOM	3663	N	THR	C	19	33.466	104.514	16.996	1.00	32.85	C
ATOM	3664	CA	THR	C	19	34.601	104.091	16.188	1.00	32.85	C
ATOM	3665	CB	THR	C	19	34.215	103.051	15.154	1.00	36.99	C
ATOM	3666	OG1	THR	C	19	32.891	102.580	15.411	1.00	36.99	C
ATOM	3667	CG2	THR	C	19	35.177	101.885	15.207	1.00	36.99	C
ATOM	3668	C	THR	C	19	35.015	105.327	15.417	1.00	32.85	C
ATOM	3669	O	THR	C	19	36.025	105.339	14.725	1.00	32.85	C
ATOM	3670	N	GLU	C	20	34.206	106.369	15.521	1.00	32.76	C
ATOM	3671	CA	GLU	C	20	34.486	107.618	14.854	1.00	32.76	C
ATOM	3672	CB	GLU	C	20	33.607	108.721	15.422	1.00100.07	C	C
ATOM	3673	CG	GLU	C	20	33.657	110.004	14.618	1.00100.07	C	C
ATOM	3674	CD	GLU	C	20	33.655	111.242	15.479	1.00100.07	C	C
ATOM	3675	OE1	GLU	C	20	33.507	112.342	14.908	1.00100.07	C	C
ATOM	3676	OE2	GLU	C	20	33.810	111.121	16.715	1.00100.07	C	C
ATOM	3677	C	GLU	C	20	35.938	108.001	15.064	1.00	32.76	C
ATOM	3678	O	GLU	C	20	36.460	108.812	14.316	1.00	32.76	C
ATOM	3679	N	ILE	C	21	36.577	107.425	16.085	1.00	35.52	C
ATOM	3680	CA	ILE	C	21	37.971	107.736	16.404	1.00	35.52	C
ATOM	3681	CB	ILE	C	21	38.569	106.773	17.419	1.00	65.40	C
ATOM	3682	CG2	ILE	C	21	39.876	107.347	17.923	1.00	65.40	C
ATOM	3683	CG1	ILE	C	21	37.598	106.551	18.578	1.00	65.40	C
ATOM	3684	CD	ILE	C	21	37.203	107.819	19.338	1.00100.07	C	C
ATOM	3685	C	ILE	C	21	38.802	107.632	15.160	1.00	35.52	C
ATOM	3686	O	ILE	C	21	39.426	108.604	14.729	1.00	35.52	C
ATOM	3687	N	GLN	C	22	38.803	106.432	14.597	1.00	55.89	C
ATOM	3688	CA	GLN	C	22	39.516	106.164	13.376	1.00	55.89	C
ATOM	3689	CB	GLN	C	22	40.142	104.778	13.451	1.00	99.33	C
ATOM	3690	CG	GLN	C	22	40.993	104.623	14.694	1.00	99.33	C
ATOM	3691	CD	GLN	C	22	41.568	103.237	14.869	1.00	99.33	C
ATOM	3692	OE1	GLN	C	22	40.839	102.250	14.883	1.00	99.33	C
ATOM	3693	NE2	GLN	C	22	42.886	103.157	15.016	1.00	99.33	C
ATOM	3694	C	GLN	C	22	38.423	106.240	12.326	1.00	55.89	C
ATOM	3695	O	GLN	C	22	37.927	107.324	12.026	1.00	55.89	C
ATOM	3696	N	VAL	C	23	38.021	105.098	11.796	1.00	60.15	C
ATOM	3697	CA	VAL	C	23	36.971	105.082	10.799	1.00	60.15	C
ATOM	3698	CB	VAL	C	23	35.585	105.203	11.433	1.00	77.73	C
ATOM	3699	CG1	VAL	C	23	34.519	105.126	10.355	1.00	77.73	C
ATOM	3700	CG2	VAL	C	23	35.386	104.111	12.448	1.00	77.73	C
ATOM	3701	C	VAL	C	23	37.148	106.268	9.889	1.00	60.15	C
ATOM	3702	O	VAL	C	23	37.848	106.183	8.887	1.00	60.15	C
ATOM	3703	N	GLU	C	24	36.520	107.380	10.262	1.00	55.50	C
ATOM	3704	CA	GLU	C	24	36.583	108.605	9.476	1.00	55.50	C
ATOM	3705	CB	GLU	C	24	35.516	109.589	9.954	1.00	99.93	C
ATOM	3706	CG	GLU	C	24	34.191	109.379	9.248	1.00	99.93	C
ATOM	3707	CD	GLU	C	24	33.005	109.889	10.034	1.00	99.93	C
ATOM	3708	OE1	GLU	C	24	32.655	109.287	11.070	1.00	99.93	C
ATOM	3709	OE2	GLU	C	24	32.415	110.899	9.612	1.00	99.93	C
ATOM	3710	C	GLU	C	24	37.954	109.256	9.437	1.00	55.50	C
ATOM	3711	O	GLU	C	24	38.154	110.262	8.748	1.00	55.50	C
ATOM	3712	N	SER	C	25	38.898	108.675	10.170	1.00	42.32	C
ATOM	3713	CA	SER	C	25	40.260	109.177	10.159	1.00	42.32	C
ATOM	3714	CB	SER	C	25	41.079	108.583	11.304	1.00	98.36	C
ATOM	3715	OG	SER	C	25	40.465	108.848	12.545	1.00	98.36	C
ATOM	3716	C	SER	C	25	40.798	108.663	8.840	1.00	42.32	C
ATOM	3717	O	SER	C	25	40.875	109.392	7.861	1.00	42.32	C
ATOM	3718	N	TYR	C	26	41.145	107.384	8.816	1.00	75.16	C
ATOM	3719	CA	TYR	C	26	41.678	106.783	7.611	1.00	75.16	C
ATOM	3720	CB	TYR	C	26	41.438	105.282	7.618	1.00100.07	C	C
ATOM	3721	CG	TYR	C	26	42.516	104.534	6.899	1.00100.07	C	C
ATOM	3722	CD1	TYR	C	26	43.832	104.630	7.321	1.00100.07	C	C
ATOM	3723	CE1	TYR	C	26	44.845	103.972	6.663	1.00100.07	C	C
ATOM	3724	CD2	TYR	C	26	42.236	103.751	5.786	1.00100.07	C	C
ATOM	3725	CE2	TYR	C	26	43.250	103.080	5.116	1.00100.07	C	C
ATOM	3726	CZ	TYR	C	26	44.555	103.202	5.565	1.00100.07	C	C
ATOM	3727	OH	TYR	C	26	45.588	102.560	4.935	1.00100.07	C	C
ATOM	3728	C	TYR	C	26	41.002	107.397	6.395	1.00	75.16	C
ATOM	3729	O	TYR	C	26	41.646	108.057	5.580	1.00	75.16	C
ATOM	3730	N	LYS	C	27	39.691	107.190	6.305	1.00	67.08	C
ATOM	3731	CA	LYS	C	27	38.881	107.683	5.194	1.00	67.08	C
ATOM	3732	CB	LYS	C	27	37.415	107.691	5.594	1.00100.07	C	C
ATOM	3733	CG	LYS	C	27	36.458	107.978	4.472	1.00100.07	C	C
ATOM	3734	CD	LYS	C	27	35.049	107.654	4.925	1.00100.07	C	C
ATOM	3735	CE	LYS	C	27	34.041	107.911	3.830	1.00100.07	C	C
ATOM	3736	NZ	LYS	C	27	32.669	107.557	4.281	1.00100.07	C	C
ATOM	3737	C	LYS	C	27	39.282	109.070	4.733	1.00	67.08	C
ATOM	3738	O	LYS	C	27	39.199	109.383	3.551	1.00	67.08	C
ATOM	3739	N	LYS	C	28	39.695	109.893	5.692	1.00	59.84	C
ATOM	3740	CA	LYS	C	28	40.134	111.261	5.412	1.00	59.84	C
ATOM	3741	CB	LYS	C	28	40.065	112.147	6.671	1.00100.07	C	C
ATOM	3742	CG	LYS	C	28	38.706	112.797	6.947	1.00100.07	C	C



ATOM	3743	CD	LYS	C	28	38.404	113.913	5.950	1.00100.07
ATOM	3744	CE	LYS	C	28	37.034	114.523	6.218	1.00100.07
ATOM	3745	NZ	LYS	C	28	36.619	115.506	5.170	1.00100.07
ATOM	3746	C	LYS	C	28	41.564	111.243	4.916	1.00 59.84
ATOM	3747	O	LYS	C	28	41.858	111.780	3.854	1.00 59.84
ATOM	3748	N	ALA	C	29	42.455	110.638	5.698	1.00 51.31
ATOM	3749	CA	ALA	C	29	43.851	110.559	5.307	1.00 51.31
ATOM	3750	CB	ALA	C	29	44.602	109.621	6.214	1.00 88.35
ATOM	3751	C	ALA	C	29	43.860	110.038	3.882	1.00 51.31
ATOM	3752	O	ALA	C	29	44.590	110.549	3.042	1.00 51.31
ATOM	3753	N	LEU	C	30	43.026	109.033	3.636	1.00 91.88
ATOM	3754	CA	LEU	C	30	42.881	108.405	2.339	1.00 91.88
ATOM	3755	CB	LEU	C	30	42.478	106.948	2.546	1.00100.07
ATOM	3756	CG	LEU	C	30	42.047	106.095	1.358	1.00100.07
ATOM	3757	CD1	LEU	C	30	43.199	105.879	0.382	1.00100.07
ATOM	3758	CD2	LEU	C	30	41.536	104.771	1.898	1.00100.07
ATOM	3759	C	LEU	C	30	41.797	109.150	1.542	1.00 91.88
ATOM	3760	O	LEU	C	30	40.646	108.706	1.455	1.00 91.88
ATOM	3761	N	GLN	C	31	42.175	110.296	0.983	1.00 74.59
ATOM	3762	CA	GLN	C	31	41.281	111.140	0.187	1.00 74.59
ATOM	3763	CB	GLN	C	31	42.088	112.024	-0.753	1.00 86.91
ATOM	3764	CG	GLN	C	31	43.415	112.501	-0.149	1.00 86.91
ATOM	3765	CD	GLN	C	31	43.279	113.804	0.586	1.00 86.91
ATOM	3766	OE1	GLN	C	31	42.168	114.243	0.884	1.00 86.91
ATOM	3767	NE2	GLN	C	31	44.407	114.436	0.879	1.00 86.91
ATOM	3768	C	GLN	C	31	40.338	110.323	-0.643	1.00 74.59
ATOM	3769	O	GLN	C	31	39.253	110.778	-0.967	1.00 74.59
ATOM	3770	N	ALA	C	32	40.792	109.117	-0.993	1.00100.07
ATOM	3771	CA	ALA	C	32	40.055	108.150	-1.800	1.00100.07
ATOM	3772	CB	ALA	C	32	40.292	106.764	-1.247	1.00 90.82
ATOM	3773	C	ALA	C	32	38.545	108.380	-1.981	1.00100.07
ATOM	3774	O	ALA	C	32	37.872	108.891	-1.094	1.00100.07
ATOM	3775	N	ASP	C	33	38.026	107.953	-3.146	1.00 57.55
ATOM	3776	CA	ASP	C	33	36.605	108.101	-3.465	1.00 57.55
ATOM	3777	CB	ASP	C	33	35.774	107.377	-2.407	1.00100.07
ATOM	3778	CG	ASP	C	33	34.822	106.382	-3.030	1.00100.07
ATOM	3779	OD1	ASP	C	33	34.015	106.799	-3.884	1.00100.07
ATOM	3780	OD2	ASP	C	33	34.878	105.176	-2.662	1.00100.07
ATOM	3781	C	ASP	C	33	36.124	109.528	-3.589	1.00 57.55
ATOM	3782	O	ASP	C	33	34.998	109.845	-3.209	1.00 57.55
ATOM	3783	N	VAL	C	34	37.005	110.363	-4.125	1.00 71.46
ATOM	3784	CA	VAL	C	34	36.753	111.782	-4.358	1.00 71.46
ATOM	3785	CB	VAL	C	34	37.561	112.629	-3.350	1.00100.07
ATOM	3786	CG1	VAL	C	34	37.598	114.073	-3.769	1.00100.07
ATOM	3787	CG2	VAL	C	34	36.953	112.475	-1.962	1.



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ATOM	3827	N	GLU	C	40	44.004	117.062	0.074	1.00	81.94	C
ATOM	3828	CA	GLU	C	40	45.366	117.233	0.587	1.00	81.94	C
ATOM	3829	CB	GLU	C	40	45.814	118.684	0.455	1.00100.07		C
ATOM	3830	CG	GLU	C	40	44.826	119.635	1.114	1.00100.07		C
ATOM	3831	CD	GLU	C	40	45.454	120.949	1.573	1.00100.07		C
ATOM	3832	OE1	GLU	C	40	45.907	121.737	0.714	1.00100.07		C
ATOM	3833	OE2	GLU	C	40	45.491	121.204	2.799	1.00100.07		C
ATOM	3834	C	GLU	C	40	45.323	116.859	2.067	1.00	81.94	C
ATOM	3835	O	GLU	C	40	46.356	116.673	2.708	1.00	81.94	C
ATOM	3836	N	ASN	C	41	44.105	116.769	2.597	1.00	99.27	C
ATOM	3837	CA	ASN	C	41	43.874	116.422	4.001	1.00	99.27	C
ATOM	3838	CB	ASN	C	41	42.415	115.967	4.210	1.00100.07		C
ATOM	3839	CG	ASN	C	41	41.398	117.093	3.998	1.00100.07		C
ATOM	3840	OD1	ASN	C	41	41.190	117.943	4.873	1.00100.07		C
ATOM	3841	ND2	ASN	C	41	40.754	117.095	2.831	1.00100.07		C
ATOM	3842	C	ASN	C	41	44.834	115.315	4.437	1.00	99.27	C
ATOM	3843	O	ASN	C	41	44.878	114.246	3.817	1.00	99.27	C
ATOM	3844	N	VAL	C	42	45.593	115.580	5.504	1.00100.07		C
ATOM	3845	CA	VAL	C	42	46.580	114.640	6.035	1.00100.07		C
ATOM	3846	CB	VAL	C	42	45.904	113.475	6.763	1.00	76.43	C
ATOM	3847	CG1	VAL	C	42	46.951	112.652	7.502	1.00	76.43	C
ATOM	3848	CG2	VAL	C	42	44.876	114.012	7.729	1.00	76.43	C
ATOM	3849	C	VAL	C	42	47.472	114.103	4.911	1.00100.07		C
ATOM	3850	O	VAL	C	42	48.464	113.420	5.156	1.00100.07		C
ATOM	3851	N	GLY	C	43	47.078	114.408	3.678	1.00100.07		C
ATOM	3852	CA	GLY	C	43	47.831	114.037	2.500	1.00100.07		C
ATOM	3853	C	GLY	C	43	48.117	112.624	2.045	1.00100.07		C
ATOM	3854	O	GLY	C	43	49.272	112.325	1.723	1.00100.07		C
ATOM	3855	N	ILE	C	44	47.113	111.750	1.995	1.00	69.51	C
ATOM	3856	CA	ILE	C	44	47.371	110.402	1.483	1.00	69.51	C
ATOM	3857	CB	ILE	C	44	46.064	109.560	1.304	1.00100.02		C
ATOM	3858	CG2	ILE	C	44	45.539	109.670	-0.132	1.00100.02		C
ATOM	3859	CG1	ILE	C	44	46.323	108.087	1.627	1.00100.02		C
ATOM	3860	CD	ILE	C	44	47.299	107.415	0.709	1.00100.07		C
ATOM	3861	C	ILE	C	44	47.870	110.798	0.109	1.00	69.51	C
ATOM	3862	O	ILE	C	44	48.617	110.069	-0.549	1.00	69.51	C
ATOM	3863	N	GLN	C	45	47.414	111.994	-0.277	1.00	86.09	C
ATOM	3864	CA	GLN	C	45	47.715	112.635	-1.544	1.00	86.09	C
ATOM	3865	CB	GLN	C	45	46.484	113.385	-2.064	1.00100.07		C
ATOM	3866	CG	GLN	C	45	46.638	113.864	-3.492	1.00100.07		C
ATOM	3867	CD	GLN	C	45	45.850	115.117	-3.778	1.00100.07		C
ATOM	3868	OE1	GLN	C	45	46.128	116.183	-3.224	1.00100.07		C
ATOM	3869	NE2	GLN	C	45	44.864	114.998	-4.649	1.00100.07		C
ATOM	3870	C	GLN	C	45	48.868	113.623	-1.419	1.00	86.09	C
ATOM	3871	O	GLN	C	45	49.804	113.599	-2.222	1.00	86.09	C
ATOM	3872	N	ALA	C	46	48.801	114.499	-0.422	1.00	99.82	C
ATOM	3873	CA	ALA	C	46	49.862	115.473	-0.261	1.00	99.82	C
ATOM	3874	CB	ALA	C	46	49.792	116.140	1.096	1.00100.07		C
ATOM	3875	C	ALA	C	46	51.158	114.726	-0.406	1.00	99.82	C
ATOM	3876	O	ALA	C	46	51.988	115.092	-1.226	1.00	99.82	C
ATOM	3877	N	ALA	C	47	51.314	113.664	0.380	1.00	56.81	C
ATOM	3878	CA	ALA	C	47	52.527	112.846	0.341	1.00	56.81	C
ATOM	3879	CB	ALA	C	47	52.207	111.423	0.808	1.00	69.85	C
ATOM	3880	C	ALA	C	47	53.126	112.834	-1.077	1.00	56.81	C
ATOM	3881	O	ALA	C	47	54.343	112.959	-1.267	1.00	56.81	C
ATOM	3882	N	PHE	C	48	52.264	112.685	-2.074	1.00	97.93	C
ATOM	3883	CA	PHE	C	48	52.714	112.707	-3.447	1.00	97.93	C
ATOM	3884	CB	PHE	C	48	51.545	112.430	-4.390	1.00	99.49	C
ATOM	3885	CG	PHE	C	48	51.143	110.988	-4.446	1.00	99.49	C
ATOM	3886	CD1	PHE	C	48	51.027	110.241	-3.285	1.00	99.49	C
ATOM	3887	CD2	PHE	C	48	50.883	110.375	-5.662	1.00	99.49	C
ATOM	3888	CE1	PHE	C	48	50.661	108.908	-3.332	1.00	99.49	C
ATOM	3889	CE2	PHE	C	48	50.517	109.041	-5.716	1.00	99.49	C
ATOM	3890	CZ	PHE	C	48	50.406	108.307	-4.548	1.00	99.49	C
ATOM	3891	C	PHE	C	48	53.200	114.128	-3.616	1.00	97.93	C
ATOM	3892	O	PHE	C	48	54.404	114.375	-3.673	1.00	97.93	C
ATOM	3893	N	LYS	C	49	52.256	115.066	-3.655	1.00	55.20	C
ATOM	3894	CA	LYS	C	49	52.605	116.466	-3.817	1.00	55.20	C
ATOM	3895	CB	LYS	C	49	51.444	117.372	-3.413	1.00100.07		C
ATOM	3896	CG	LYS	C	49	50.465	117.612	-4.557	1.00100.07		C
ATOM	3897	CD	LYS	C	49	49.132	118.170	-4.088	1.00100.07		C
ATOM	3898	CE	LYS	C	49	48.202	118.374	-5.284	1.00100.07		C
ATOM	3899	NZ	LYS	C	49	46.814	118.754	-4.903	1.00100.07		C
ATOM	3900	C	LYS	C	49	53.821	116.719	-2.965	1.00	55.20	C
ATOM	3901	O	LYS	C	49	54.805	117.274	-3.433	1.00	55.20	C
ATOM	3902	N	GLU	C	50	53.777	116.254	-1.724	1.00	44.34	C
ATOM	3903	CA	GLU	C	50	54.905	116.439	-0.815	1.00	44.34	C
ATOM	3904	CB	GLU	C	50	54.722	115.640	0.488	1.00100.07		C
ATOM	3905	CG	GLU	C	50	53.460	115.940	1.288	1.00100.07		C
ATOM	3906	CD	GLU	C	50	53.351	117.385	1.757	1.00100.07		C
ATOM	3907	OE1	GLU	C	50	53.412	118.307	0.910	1.00100.07		C
ATOM	3908	OE2	GLU	C	50	53.181	117.596	2.979	1.00100.07		C
ATOM	3909	C	GLU	C	50	56.220	116.020	-1.473	1.00	44.34	C
ATOM	3910	O	GLU	C	50	57.013	116.875	-1.865	1.00	44.34	C



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ATOM	3911	N	THR	C	51	56.452	114.714	-1.584	1.00	92.95	C
ATOM	3912	CA	THR	C	51	57.673	114.214	-2.185	1.00	92.95	C
ATOM	3913	CB	THR	C	51	57.591	112.736	-2.476	1.00	76.00	C
ATOM	3914	OG1	THR	C	51	57.002	112.067	-1.354	1.00	76.00	C
ATOM	3915	CG2	THR	C	51	58.995	112.197	-2.724	1.00	76.00	C
ATOM	3916	C	THR	C	51	57.864	114.972	-3.483	1.00	92.95	C
ATOM	3917	O	THR	C	51	57.014	114.930	-4.370	1.00	92.95	C
ATOM	3918	N	PHE	C	52	58.994	115.666	-3.575	1.00100.07	C	C
ATOM	3919	CA	PHE	C	52	59.315	116.498	-4.724	1.00100.07	C	C
ATOM	3920	CB	PHE	C	52	60.744	117.038	-4.598	1.00100.07	C	C
ATOM	3921	CG	PHE	C	52	60.847	118.279	-3.748	1.00100.07	C	C
ATOM	3922	CD1	PHE	C	52	61.702	118.323	-2.652	1.00100.07	C	C
ATOM	3923	CD2	PHE	C	52	60.083	119.413	-4.047	1.00100.07	C	C
ATOM	3924	CE1	PHE	C	52	61.794	119.492	-1.857	1.00100.07	C	C
ATOM	3925	CE2	PHE	C	52	60.164	120.578	-3.268	1.00100.07	C	C
ATOM	3926	CZ	PHE	C	52	61.019	120.619	-2.172	1.00100.07	C	C
ATOM	3927	C	PHE	C	52	59.111	115.903	-6.105	1.00100.07	C	C
ATOM	3928	O	PHE	C	52	59.649	114.840	-6.417	1.00100.07	C	C
ATOM	3929	N	PRO	C	53	58.298	116.591	-6.942	1.00	91.92	C
ATOM	3930	CD	PRO	C	53	57.487	117.764	-6.573	1.00	49.19	C
ATOM	3931	CA	PRO	C	53	57.997	116.184	-8.311	1.00	91.92	C
ATOM	3932	CB	PRO	C	53	57.281	117.407	-8.862	1.00	49.19	C
ATOM	3933	CG	PRO	C	53	56.481	117.827	-7.694	1.00	49.19	C
ATOM	3934	C	PRO	C	53	59.317	115.898	-9.008	1.00	91.92	C
ATOM	3935	O	PRO	C	53	59.735	116.614	-9.913	1.00	91.92	C
ATOM	3936	N	ILE	C	54	59.963	114.837	-8.528	1.00100.07	C	C
ATOM	3937	CA	ILE	C	54	61.248	114.330	-8.990	1.00100.07	C	C
ATOM	3938	CB	ILE	C	54	61.068	112.912	-9.529	1.00100.07	C	C
ATOM	3939	CG2	ILE	C	54	62.264	112.529	-10.409	1.00100.07	C	C
ATOM	3940	CG1	ILE	C	54	60.753	111.962	-8.358	1.00100.07	C	C
ATOM	3941	CD	ILE	C	54	61.570	112.186	-7.095	1.00100.07	C	C
ATOM	3942	C	ILE	C	54	62.105	115.129	-9.960	1.00100.07	C	C
ATOM	3943	O	ILE	C	54	61.810	115.253	-11.155	1.00100.07	C	C
ATOM	3944	N	GLU	C	55	63.202	115.636	-9.412	1.00100.07	C	C
ATOM	3945	CA	GLU	C	55	64.160	116.433	-10.162	1.00100.07	C	C
ATOM	3946	CB	GLU	C	55	64.719	117.563	-9.289	1.00100.07	C	C
ATOM	3947	CG	GLU	C	55	63.714	118.412	-8.512	1.00100.07	C	C
ATOM	3948	CD	GLU	C	55	64.137	118.662	-7.056	1.00100.07	C	C
ATOM	3949	OE1	GLU	C	55	65.344	118.839	-6.784	1.00100.07	C	C
ATOM	3950	OE2	GLU	C	55	63.243	118.689	-6.182	1.00100.07	C	C
ATOM	3951	C	GLU	C	55	65.322	115.529	-10.518	1.00100.07	C	C
ATOM	3952	O	GLU	C	55	65.555	114.522	-9.844	1.00100.07	C	C
ATOM	3953	N	GLU	C	56	66.057	115.890	-11.565	1.00	85.09	C
ATOM	3954	CA	GLU	C	56	67.240	115.136	-11.970	1.00	85.09	C
ATOM	3955	CB	GLU	C	56	67.546	115.301	-13.476	1.00100.07	C	C
ATOM	3956	CG	GLU	C	56	67.905	116.716	-13.971	1.00100.07	C	C
ATOM	3957	CD	GLU	C	56	66.718	117.457	-14.580	1.00100.07	C	C
ATOM	3958	OE1	GLU	C	56	66.059	116.895	-15.480	1.00100.07	C	C
ATOM	3959	OE2	GLU	C	56	66.445	118.607	-14.161	1.00100.07	C	C
ATOM	3960	C	GLU	C	56	68.392	115.721	-11.146	1.00	85.09	C
ATOM	3961	O	GLU	C	56	68.261	115.954	-9.955	1.00	85.09	C
ATOM	3962	N	ALA	C	57	69.520	115.952	-11.800	1.00100.07	C	C
ATOM	3963	CA	ALA	C	57	70.688	116.533	-11.159	1.00100.07	C	C
ATOM	3964	CB	ALA	C	57	71.891	115.528	-11.220	1.00	81.58	C
ATOM	3965	C	ALA	C	57	71.031	117.860	-11.876	1.00100.07	C	C
ATOM	3966	O	ALA	C	57	70.352	118.274	-12.832	1.00100.07	C	C
ATOM	3967	N	ALA	C	58	72.060	118.534	-11.372	1.00100.07	C	C
ATOM	3968	CA	ALA	C	58	72.523	119.799	-11.951	1.00100.07	C	C
ATOM	3969	CB	ALA	C	58	72.832	119.603	-13.456	1.00	88.65	C
ATOM	3970	C	ALA	C	58	71.633	121.040	-11.756	1.00100.07	C	C
ATOM	3971	O	ALA	C	58	72.164	122.124	-11.511	1.00100.07	C	C
ATOM	3972	N	ALA	C	59	70.308	120.878	-11.818	1.00100.07	C	C
ATOM	3973	CA	ALA	C	59	69.363	121.990	-11.701	1.00100.07	C	C
ATOM	3974	CB	ALA	C	59	69.776	122.953	-10.549	1.00	73.41	C
ATOM	3975	C	ALA	C	59	69.274	122.733	-13.046	1.00100.07	C	C
ATOM	3976	O	ALA	C	59	69.697	123.879	-13.169	1.00100.07	C	C
ATOM	3977	N	ALA	C	60	68.704	122.033	-14.025	1.00100.07	C	C
ATOM	3978	CA	ALA	C	60	68.501	122.478	-15.418	1.00100.07	C	C
ATOM	3979	CB	ALA	C	60	68.734	123.996	-15.594	1.00100.07	C	C
ATOM	3980	C	ALA	C	60	69.436	121.675	-16.322	1.00100.07	C	C
ATOM	3981	O	ALA	C	60	70.038	120.695	-15.872	1.00100.07	C	C
ATOM	3982	N	ALA	C	61	69.533	122.076	-17.592	1.00100.07	C	C
ATOM	3983	CA	ALA	C	61	70.363	121.410	-18.618	1.00100.07	C	C
ATOM	3984	CB	ALA	C	61	71.570	120.723	-17.987	1.00100.07	C	C
ATOM	3985	C	ALA	C	61	69.512	120.385	-19.390	1.00100.07	C	C
ATOM	3986	O	ALA	C	61	68.289	120.457	-19.351	1.00100.07	C	C
ATOM	3987	N	ALA	C	62	70.141	119.462	-20.123	1.00100.07	C	C
ATOM	3988	CA	ALA	C	62	69.400	118.433	-20.882	1.00100.07	C	C
ATOM	3989	CB	ALA	C	62	70.375	117.395	-21.466	1.00100.07	C	C
ATOM	3990	C	ALA	C	62	68.382	117.756	-19.943	1.00100.07	C	C
ATOM	3991	O	ALA	C	62	68.690	116.784	-19.235	1.00100.07	C	C
ATOM	3992	N	ALA	C	63	67.169	118.311	-19.947	1.00100.07	C	C
ATOM	3993	CA	ALA	C	63	66.061	117.889	-19.093	1.00100.07	C	C
ATOM	3994	CB	ALA	C	63	64.807	118.689	-19.493	1.00	31.37	C



ATOM	3995	C	ALA	C	63	65.714	116.399	-18.943	1.00100.07	C
ATOM	3996	O	ALA	C	63	65.621	115.655	-19.923	1.00100.07	C
ATOM	3997	N	LEU	C	64	65.526	115.992	-17.683	1.00 99.55	C
ATOM	3998	CA	LEU	C	64	65.169	114.621	-17.292	1.00 99.55	C
ATOM	3999	CB	LEU	C	64	66.422	113.733	-17.185	1.00100.07	C
ATOM	4000	CG	LEU	C	64	66.507	112.380	-17.922	1.00100.07	C
ATOM	4001	CD1	LEU	C	64	67.912	111.798	-17.726	1.00100.07	C
ATOM	4002	CD2	LEU	C	64	65.450	111.407	-17.415	1.00100.07	C
ATOM	4003	C	LEU	C	64	64.499	114.708	-15.918	1.00 99.55	C
ATOM	4004	O	LEU	C	64	65.121	114.385	-14.908	1.00 99.55	C
ATOM	4005	N	VAL	C	65	63.244	115.163	-15.890	1.00100.07	C
ATOM	4006	CA	VAL	C	65	62.472	115.304	-14.650	1.00100.07	C
ATOM	4007	CB	VAL	C	65	62.309	116.786	-14.251	1.00100.07	C
ATOM	4008	CG1	VAL	C	65	60.950	117.010	-13.573	1.00100.07	C
ATOM	4009	CG2	VAL	C	65	63.439	117.185	-13.299	1.00100.07	C
ATOM	4010	C	VAL	C	65	61.079	114.671	-14.675	1.00100.07	C
ATOM	4011	O	VAL	C	65	60.302	114.859	-15.618	1.00100.07	C
ATOM	4012	N	LEU	C	66	60.769	113.947	-13.600	1.00 57.88	C
ATOM	4013	CA	LEU	C	66	59.485	113.276	-13.454	1.00 57.88	C
ATOM	4014	CB	LEU	C	66	59.680	111.955	-12.699	1.00100.07	C
ATOM	4015	CG	LEU	C	66	58.465	111.064	-12.426	1.00100.07	C
ATOM	4016	CD1	LEU	C	66	57.672	110.829	-13.702	1.00100.07	C
ATOM	4017	CD2	LEU	C	66	58.949	109.741	-11.833	1.00100.07	C
ATOM	4018	C	LEU	C	66	58.546	114.199	-12.687	1.00 57.88	C
ATOM	4019	O	LEU	C	66	58.964	115.238	-12.189	1.00 57.88	C
ATOM	4020	N	ASP	C	67	57.273	113.840	-12.617	1.00 64.25	C
ATOM	4021	CA	ASP	C	67	56.315	114.654	-11.890	1.00 64.25	C
ATOM	4022	CB	ASP	C	67	55.975	115.941	-12.664	1.00100.07	C
ATOM	4023	CG	ASP	C	67	55.108	115.691	-13.890	1.00100.07	C
ATOM	4024	OD1	ASP	C	67	55.411	114.752	-14.659	1.00100.07	C
ATOM	4025	OD2	ASP	C	67	54.130	116.451	-14.090	1.00100.07	C
ATOM	4026	C	ASP	C	67	55.074	113.829	-11.638	1.00 64.25	C
ATOM	4027	O	ASP	C	67	54.707	112.963	-12.432	1.00 64.25	C
ATOM	4028	N	PHE	C	68	54.425	114.114	-10.522	1.00 66.57	C
ATOM	4029	CA	PHE	C	68	53.252	113.379	-10.105	1.00 66.57	C
ATOM	4030	CB	PHE	C	68	53.213	113.339	-8.573	1.00100.07	C
ATOM	4031	CG	PHE	C	68	54.531	112.924	-7.950	1.00100.07	C
ATOM	4032	CD1	PHE	C	68	55.624	113.793	-7.936	1.00100.07	C
ATOM	4033	CD2	PHE	C	68	54.703	111.639	-7.447	1.00100.07	C
ATOM	4034	CE1	PHE	C	68	56.867	113.376	-7.436	1.00100.07	C
ATOM	4035	CE2	PHE	C	68	55.942	111.218	-6.947	1.00100.07	C
ATOM	4036	CZ	PHE	C	68	57.022	112.088	-6.945	1.00100.07	C
ATOM	4037									



ATOM	4079	N	ILE	C	73	43.729	104.102	-6.155	1.00	63.88	C
ATOM	4080	CA	ILE	C	73	43.753	102.805	-5.486	1.00	63.88	C
ATOM	4081	CB	ILE	C	73	43.574	102.891	-3.953	1.00	100.07	C
ATOM	4082	CG2	ILE	C	73	44.622	102.078	-3.267	1.00	100.07	C
ATOM	4083	CG1	ILE	C	73	43.566	104.335	-3.483	1.00	100.07	C
ATOM	4084	CD	ILE	C	73	42.175	104.768	-3.007	1.00	100.07	C
ATOM	4085	C	ILE	C	73	42.480	102.205	-6.020	1.00	63.88	C
ATOM	4086	O	ILE	C	73	41.550	102.952	-6.328	1.00	63.88	C
ATOM	4087	N	GLY	C	74	42.399	100.888	-6.138	1.00	44.96	C
ATOM	4088	CA	GLY	C	74	41.148	100.354	-6.632	1.00	44.96	C
ATOM	4089	C	GLY	C	74	40.924	98.877	-6.468	1.00	44.96	C
ATOM	4090	O	GLY	C	74	41.841	98.124	-6.132	1.00	44.96	C
ATOM	4091	N	ASP	C	75	39.677	98.474	-6.688	1.00	61.25	C
ATOM	4092	CA	ASP	C	75	39.300	97.078	-6.613	1.00	61.25	C
ATOM	4093	CB	ASP	C	75	39.288	96.480	-8.028	1.00	100.07	C
ATOM	4094	CG	ASP	C	75	40.471	96.965	-8.906	1.00	100.07	C
ATOM	4095	OD1	ASP	C	75	40.641	98.191	-9.095	1.00	100.07	C
ATOM	4096	OD2	ASP	C	75	41.226	96.119	-9.436	1.00	100.07	C
ATOM	4097	C	ASP	C	75	40.181	96.218	-5.713	1.00	61.25	C
ATOM	4098	O	ASP	C	75	41.273	95.786	-6.117	1.00	61.25	C
ATOM	4099	N	PRO	C	76	39.734	95.979	-4.466	1.00	77.46	C
ATOM	4100	CD	PRO	C	76	38.632	96.635	-3.745	1.00	86.05	C
ATOM	4101	CA	PRO	C	76	40.526	95.146	-3.560	1.00	77.46	C
ATOM	4102	CB	PRO	C	76	39.699	95.140	-2.265	1.00	86.05	C
ATOM	4103	CG	PRO	C	76	38.326	95.626	-2.678	1.00	86.05	C
ATOM	4104	C	PRO	C	76	40.700	93.761	-4.196	1.00	77.46	C
ATOM	4105	O	PRO	C	76	39.734	93.129	-4.598	1.00	77.46	C
ATOM	4106	N	PRO	C	77	41.945	93.278	-4.278	1.00	54.01	C
ATOM	4107	CD	PRO	C	77	42.936	93.689	-3.269	1.00	64.03	C
ATOM	4108	CA	PRO	C	77	42.324	91.991	-4.859	1.00	54.01	C
ATOM	4109	CB	PRO	C	77	43.742	91.799	-4.366	1.00	64.03	C
ATOM	4110	CG	PRO	C	77	43.682	92.410	-3.004	1.00	64.03	C
ATOM	4111	C	PRO	C	77	41.414	90.884	-4.392	1.00	54.01	C
ATOM	4112	O	PRO	C	77	40.760	90.225	-5.202	1.00	54.01	C
ATOM	4113	N	PHE	C	78	41.390	90.676	-3.079	1.00	58.09	C
ATOM	4114	CA	PHE	C	78	40.554	89.647	-2.454	1.00	58.09	C
ATOM	4115	CB	PHE	C	78	41.398	88.629	-1.699	1.00	98.77	C
ATOM	4116	CG	PHE	C	78	41.846	87.485	-2.530	1.00	98.77	C
ATOM	4117	CD1	PHE	C	78	43.037	87.554	-3.225	1.00	98.77	C
ATOM	4118	CD2	PHE	C	78	41.091	86.321	-2.588	1.00	98.77	C
ATOM	4119	CE1	PHE	C	78	43.483	86.476	-3.965	1.00	98.77	C
ATOM	4120	CE2	PHE	C	78	41.526	85.234	-3.328	1.00	98.77	C
ATOM	4121	CZ	PHE	C	78	42.728	85.310	-4.018	1.00	98.77	C
ATOM	4122	C	PHE	C	78	39.607	90.303	-1.473	1.00	58.09	C
ATOM	4123	O	PHE	C	78	39.590	91.533	-1.366	1.00	58.09	C
ATOM	4124	N	SER	C	79	38.828	89.489	-0.763	1.00	60.18	C
ATOM	4125	CA	SER	C	79	37.869	89.992	0.207	1.00	60.18	C
ATOM	4126	CB	SER	C	79	36.446	89.566	-0.171	1.00	100.07	C
ATOM	4127	OG	SER	C	79	36.154	88.258	0.298	1.00	100.07	C
ATOM	4128	C	SER	C	79	38.130	89.512	1.619	1.00	60.18	C
ATOM	4129	O	SER	C	79	38.856	88.550	1.843	1.00	60.18	C
ATOM	4130	N	GLN	C	80	37.517	90.209	2.567	1.00	78.53	C
ATOM	4131	CA	GLN	C	80	37.615	89.851	3.962	1.00	78.53	C
ATOM	4132	CB	GLN	C	80	36.744	90.789	4.805	1.00	100.07	C
ATOM	4133	CG	GLN	C	80	35.437	91.250	4.115	1.00	100.07	C
ATOM	4134	CD	GLN	C	80	34.297	91.448	5.105	1.00	100.07	C
ATOM	4135	OE1	GLN	C	80	34.394	92.274	6.017	1.00	100.07	C
ATOM	4136	NE2	GLN	C	80	33.215	90.678	4.937	1.00	100.07	C
ATOM	4137	C	GLN	C	80	37.117	88.408	4.078	1.00	78.53	C
ATOM	4138	O	GLN	C	80	36.103	88.057	3.489	1.00	78.53	C
ATOM	4139	N	ASP	C	81	37.848	87.597	4.838	1.00	87.72	C
ATOM	4140	CA	ASP	C	81	37.545	86.181	5.067	1.00	87.72	C
ATOM	4141	CB	ASP	C	81	36.031	85.894	5.051	1.00	100.07	C
ATOM	4142	CG	ASP	C	81	35.464	85.571	6.445	1.00	100.07	C
ATOM	4143	OD1	ASP	C	81	34.766	86.436	7.028	1.00	100.07	C
ATOM	4144	OD2	ASP	C	81	35.716	84.461	6.962	1.00	100.07	C
ATOM	4145	C	ASP	C	81	38.255	85.294	4.057	1.00	87.72	C
ATOM	4146	O	ASP	C	81	38.748	84.229	4.416	1.00	87.72	C
ATOM	4147	N	GLU	C	82	38.292	85.718	2.794	1.00	77.33	C
ATOM	4148	CA	GLU	C	82	39.032	84.953	1.787	1.00	77.33	C
ATOM	4149	CB	GLU	C	82	38.857	85.492	0.365	1.00	100.07	C
ATOM	4150	CG	GLU	C	82	37.467	85.559	-0.184	1.00	100.07	C
ATOM	4151	CD	GLU	C	82	37.465	86.160	-1.571	1.00	100.07	C
ATOM	4152	OE1	GLU	C	82	38.085	87.235	-1.743	1.00	100.07	C
ATOM	4153	OE2	GLU	C	82	36.845	85.559	-2.480	1.00	100.07	C
ATOM	4154	C	GLU	C	82	40.428	85.312	2.203	1.00	77.33	C
ATOM	4155	O	GLU	C	82	41.351	84.507	2.124	1.00	77.33	C
ATOM	4156	N	CYS	C	83	40.556	86.561	2.637	1.00	33.66	C
ATOM	4157	CA	CYS	C	83	41.819	87.108	3.081	1.00	33.66	C
ATOM	4158	CB	CYS	C	83	41.656	88.559	3.479	1.00	42.30	C
ATOM	4159	SG	CYS	C	83	42.498	89.654	2.355	1.00	42.30	C
ATOM	4160	C	CYS	C	83	42.335	86.335	4.253	1.00	33.66	C
ATOM	4161	O	CYS	C	83	43.341	85.642	4.145	1.00	33.66	C
ATOM	4162	N	ARG	C	84	41.645	86.438	5.382	1.00	40.55	C



ATOM	4163	CA	ARG	C	84	42.079	85.720	6.580	1.00	40.55	C
ATOM	4164	CB	ARG	C	84	41.086	85.954	7.715	1.00	60.20	C
ATOM	4165	CG	ARG	C	84	40.630	87.404	7.827	1.00	60.20	C
ATOM	4166	CD	ARG	C	84	39.392	87.509	8.709	1.00	60.20	C
ATOM	4167	NE	ARG	C	84	38.602	88.714	8.456	1.00	60.20	C
ATOM	4168	CZ	ARG	C	84	37.357	88.888	8.890	1.00	60.20	C
ATOM	4169	NH1	ARG	C	84	36.762	87.933	9.597	1.00	60.20	C
ATOM	4170	NH2	ARG	C	84	36.705	90.008	8.609	1.00	60.20	C
ATOM	4171	C	ARG	C	84	42.205	84.224	6.288	1.00	40.55	C
ATOM	4172	O	ARG	C	84	43.157	83.579	6.717	1.00	40.55	C
ATOM	4173	N	GLU	C	85	41.249	83.684	5.539	1.00	54.53	C
ATOM	4174	CA	GLU	C	85	41.271	82.268	5.205	1.00	54.53	C
ATOM	4175	CB	GLU	C	85	40.133	81.925	4.241	1.00	100.07	C
ATOM	4176	CG	GLU	C	85	39.920	80.430	4.047	1.00	100.07	C
ATOM	4177	CD	GLU	C	85	38.512	80.088	3.584	1.00	100.07	C
ATOM	4178	OE1	GLU	C	85	38.111	80.537	2.485	1.00	100.07	C
ATOM	4179	OE2	GLU	C	85	37.801	79.367	4.327	1.00	100.07	C
ATOM	4180	C	GLU	C	85	42.606	81.896	4.587	1.00	54.53	C
ATOM	4181	O	GLU	C	85	43.318	81.043	5.111	1.00	54.53	C
ATOM	4182	N	LYS	C	86	42.947	82.563	3.488	1.00	65.18	C
ATOM	4183	CA	LYS	C	86	44.186	82.301	2.773	1.00	65.18	C
ATOM	4184	CB	LYS	C	86	43.964	82.518	1.274	1.00	100.07	C
ATOM	4185	CG	LYS	C	86	43.028	81.487	0.660	1.00	100.07	C
ATOM	4186	CD	LYS	C	86	42.558	81.876	-0.726	1.00	100.07	C
ATOM	4187	CE	LYS	C	86	41.580	80.846	-1.281	1.00	100.07	C
ATOM	4188	NZ	LYS	C	86	40.652	81.452	-2.278	1.00	100.07	C
ATOM	4189	C	LYS	C	86	45.317	83.187	3.259	1.00	65.18	C
ATOM	4190	O	LYS	C	86	46.149	83.611	2.470	1.00	65.18	C
ATOM	4191	N	ASP	C	87	45.359	83.452	4.560	1.00	100.07	C
ATOM	4192	CA	ASP	C	87	46.399	84.302	5.129	1.00	100.07	C
ATOM	4193	CB	ASP	C	87	47.588	83.475	5.619	1.00	70.60	C
ATOM	4194	CG	ASP	C	87	47.361	82.870	6.997	1.00	70.60	C
ATOM	4195	OD1	ASP	C	87	46.695	83.499	7.841	1.00	70.60	C
ATOM	4196	OD2	ASP	C	87	47.874	81.766	7.254	1.00	70.60	C
ATOM	4197	C	ASP	C	87	46.897	85.329	4.132	1.00	100.07	C
ATOM	4198	O	ASP	C	87	48.034	85.261	3.682	1.00	100.07	C
ATOM	4199	N	LEU	C	88	46.035	86.271	3.778	1.00	100.04	C
ATOM	4200	CA	LEU	C	88	46.408	87.329	2.854	1.00	100.04	C
ATOM	4201	CB	LEU	C	88	45.838	87.060	1.458	1.00	94.76	C
ATOM	4202	CG	LEU	C	88	46.548	85.963	0.653	1.00	94.76	C
ATOM	4203	CD1	LEU	C	88	46.111	86.008	-0.807	1.00	94.76	C
ATOM	4204	CD2	LEU	C	88	48.045	86.167	0.729	1.00	94.76	C
ATOM	4205	C	LEU	C	88	45.891	88.665	3.374	1.00	100.04	C
ATOM	4206	O	LEU	C	88	44.699	88.811	3.631	1.00	100.04	C
ATOM	4207	N	THR	C	89	46.794	89.626	3.548	1.00	71.47	C
ATOM	4208	CA	THR	C	89	46.444	90.958	4.042	1.00	71.47	C
ATOM	4209	CB	THR	C	89	47.664	91.895	3.980	1.00	100.07	C
ATOM	4210	OG1	THR	C	89	48.741	91.340	4.752	1.00	100.07	C
ATOM	4211	CG2	THR	C	89	47.314	93.242	4.547	1.00	100.07	C
ATOM	4212	C	THR	C	89	45.309	91.572	3.217	1.00	71.47	C
ATOM	4213	O	THR	C	89	45.170	91.264	2.035	1.00	71.47	C
ATOM	4214	N	TYR	C	90	44.509	92.440	3.826	1.00	76.50	C
ATOM	4215	CA	TYR	C	90	43.387	93.050	3.117	1.00	76.50	C
ATOM	4216	CB	TYR	C	90	42.228	93.284	4.074	1.00	99.63	C
ATOM	4217	CG	TYR	C	90	40.981	93.806	3.406	1.00	99.63	C
ATOM	4218	CD1	TYR	C	90	40.580	93.323	2.163	1.00	99.63	C
ATOM	4219	CE1	TYR	C	90	39.449	93.803	1.555	1.00	99.63	C
ATOM	4220	CD2	TYR	C	90	40.204	94.786	4.013	1.00	99.63	C
ATOM	4221	CE2	TYR	C	90	39.062	95.269	3.403	1.00	99.63	C
ATOM	4222	CZ	TYR	C	90	38.699	94.776	2.171	1.00	99.63	C
ATOM	4223	OH	TYR	C	90	37.596	95.283	1.532	1.00	99.63	C
ATOM	4224	C	TYR	C	90	43.779	94.361	2.458	1.00	76.50	C
ATOM	4225	O	TYR	C	90	43.243	95.411	2.797	1.00	76.50	C
ATOM	4226	N	GLN	C	91	44.698	94.282	1.523	1.00	31.86	C
ATOM	4227	CA	GLN	C	91	45.180	95.451	0.793	1.00	31.86	C
ATOM	4228	CB	GLN	C	91	46.666	95.294	0.493	1.00	100.07	C
ATOM	4229	CG	GLN	C	91	47.560	95.167	1.722	1.00	100.07	C
ATOM	4230	CD	GLN	C	91	48.954	94.690	1.372	1.00	100.07	C
ATOM	4231	OE1	GLN	C	91	49.097	93.788	0.548	1.00	100.07	C
ATOM	4232	NE2	GLN	C	91	49.979	95.265	2.000	1.00	100.07	C
ATOM	4233	C	GLN	C	91	44.443	95.672	-0.535	1.00	31.86	C
ATOM	4234	O	GLN	C	91	43.605	94.859	-0.943	1.00	31.86	C
ATOM	4235	N	ALA	C	92	44.763	96.766	-1.193	1.00	44.62	C
ATOM	4236	CA	ALA	C	92	44.155	97.116	-2.482	1.00	44.62	C
ATOM	4237	CB	ALA	C	92	42.937	97.984	-2.259	1.00	77.59	C
ATOM	4238	C	ALA	C	92	45.176	97.864	-3.331	1.00	44.62	C
ATOM	4239	O	ALA	C	92	45.713	98.879	-2.933	1.00	44.62	C
ATOM	4240	N	PRO	C	93	45.445	97.360	-4.531	1.00	71.69	C
ATOM	4241	CD	PRO	C	93	44.722	96.322	-5.271	1.00	83.08	C
ATOM	4242	CA	PRO	C	93	46.426	98.053	-5.370	1.00	71.69	C
ATOM	4243	CB	PRO	C	93	46.297	97.338	-6.709	1.00	83.08	C
ATOM	4244	CG	PRO	C	93	44.880	96.804	-6.673	1.00	83.08	C
ATOM	4245	C	PRO	C	93	46.229	99.558	-5.498	1.00	71.69	C
ATOM	4246	O	PRO	C	93	45.096	100.046	-5.586	1.00	71.69	C



ATOM	4247	N	LEU	C	94	47.335	100.295	-5.501	1.00	46.46	C
ATOM	4248	CA	LEU	C	94	47.299	101.746	-5.644	1.00	46.46	C
ATOM	4249	CB	LEU	C	94	47.569	102.450	-4.301	1.00	100.07	C
ATOM	4250	CG	LEU	C	94	47.791	103.983	-4.362	1.00	100.07	C
ATOM	4251	CD1	LEU	C	94	46.785	104.634	-5.345	1.00	100.07	C
ATOM	4252	CD2	LEU	C	94	47.710	104.596	-2.953	1.00	100.07	C
ATOM	4253	C	LEU	C	94	48.333	102.204	-6.653	1.00	46.46	C
ATOM	4254	O	LEU	C	94	49.527	102.007	-6.444	1.00	46.46	C
ATOM	4255	N	TYR	C	95	47.875	102.814	-7.738	1.00	38.72	C
ATOM	4256	CA	TYR	C	95	48.785	103.327	-8.755	1.00	38.72	C
ATOM	4257	CB	TYR	C	95	48.677	102.477	-10.034	1.00	99.71	C
ATOM	4258	CG	TYR	C	95	47.277	102.114	-10.492	1.00	99.71	C
ATOM	4259	CD1	TYR	C	95	46.387	103.090	-10.940	1.00	99.71	C
ATOM	4260	CE1	TYR	C	95	45.122	102.750	-11.458	1.00	99.71	C
ATOM	4261	CD2	TYR	C	95	46.870	100.784	-10.557	1.00	99.71	C
ATOM	4262	CE2	TYR	C	95	45.613	100.432	-11.071	1.00	99.71	C
ATOM	4263	CZ	TYR	C	95	44.746	101.421	-11.526	1.00	99.71	C
ATOM	4264	OH	TYR	C	95	43.531	101.094	-12.096	1.00	99.71	C
ATOM	4265	C	TYR	C	95	48.472	104.817	-9.027	1.00	38.72	C
ATOM	4266	O	TYR	C	95	47.469	105.347	-8.527	1.00	38.72	C
ATOM	4267	N	ALA	C	96	49.335	105.497	-9.785	1.00	49.87	C
ATOM	4268	CA	ALA	C	96	49.115	106.910	-10.109	1.00	49.87	C
ATOM	4269	CB	ALA	C	96	49.384	107.775	-8.892	1.00	87.08	C
ATOM	4270	C	ALA	C	96	49.998	107.360	-11.276	1.00	49.87	C
ATOM	4271	O	ALA	C	96	51.215	107.232	-11.198	1.00	49.87	C
ATOM	4272	N	ARG	C	97	49.390	107.895	-12.339	1.00	37.17	C
ATOM	4273	CA	ARG	C	97	50.116	108.347	-13.539	1.00	37.17	C
ATOM	4274	CB	ARG	C	97	49.146	108.899	-14.587	1.00	100.07	C
ATOM	4275	CG	ARG	C	97	48.033	107.979	-15.033	1.00	100.07	C
ATOM	4276	CD	ARG	C	97	47.021	108.749	-15.880	1.00	100.07	C
ATOM	4277	NE	ARG	C	97	45.816	107.967	-16.137	1.00	100.07	C
ATOM	4278	CZ	ARG	C	97	44.762	108.405	-16.820	1.00	100.07	C
ATOM	4279	NH1	ARG	C	97	44.754	109.633	-17.327	1.00	100.07	C
ATOM	4280	NH2	ARG	C	97	43.712	107.610	-16.994	1.00	100.07	C
ATOM	4281	C	ARG	C	97	51.139	109.440	-13.270	1.00	37.17	C
ATOM	4282	O	ARG	C	97	50.789	110.494	-12.749	1.00	37.17	C
ATOM	4283	N	LEU	C	98	52.390	109.200	-13.656	1.00	70.64	C
ATOM	4284	CA	LEU	C	98	53.468	110.172	-13.472	1.00	70.64	C
ATOM	4285	CB	LEU	C	98	54.628	109.533	-12.708	1.00	99.56	C
ATOM	4286	CG	LEU	C	98	54.248	108.906	-11.363	1.00	99.56	C
ATOM	4287	CD1	LEU	C	98	55.483	108.366	-10.655	1.00	99.56	C
ATOM	4288	CD2	LEU	C	98	53.566	109.951	-10.503	1.00	99.56	C
ATOM	4289	C	LEU	C	98	53.927	110.598	-14.860	1.00	70.64	C
ATOM	4290	O	LEU	C	98	53.318	110.195	-15.847	1.00	70.64	C
ATOM	4291	N	GLN	C	99	54.994	111.390	-14.952	1.00	48.44	C
ATOM	4292	CA	GLN	C	99	55.470	111.848	-16.261	1.00	48.44	C
ATOM	4293	CB	GLN	C	99	54.624	113.013	-16.761	1.00	99.92	C
ATOM	4294	CG	GLN	C	99	53.177	112.716	-16.978	1.00	99.92	C
ATOM	4295	CD	GLN	C	99	52.391	113.959	-17.330	1.00	99.92	C
ATOM	4296	OE1	GLN	C	99	52.616	114.573	-18.373	1.00	99.92	C
ATOM	4297	NE2	GLN	C	99	51.460	114.341	-16.458	1.00	99.92	C
ATOM	4298	C	GLN	C	99	56.906	112.329	-16.282	1.00	48.44	C
ATOM	4299	O	GLN	C	99	57.297	113.132	-15.440	1.00	48.44	C
ATOM	4300	N	LEU	C	100	57.692	111.864	-17.247	1.00	56.30	C
ATOM	4301	CA	LEU	C	100	59.062	112.349	-17.359	1.00	56.30	C
ATOM	4302	CB	LEU	C	100	59.944	111.394	-18.142	1.00	97.08	C
ATOM	4303	CG	LEU	C	100	59.726	109.908	-17.952	1.00	97.08	C
ATOM	4304	CD1	LEU	C	100	59.622	109.289	-19.323	1.00	97.08	C
ATOM	4305	CD2	LEU	C	100	60.856	109.297	-17.144	1.00	97.08	C
ATOM	4306	C	LEU	C	100	58.909	113.606	-18.188	1.00	56.30	C
ATOM	4307	O	LEU	C	100	57.952	113.741	-18.951	1.00	56.30	C
ATOM	4308	N	ILE	C	101	59.842	114.530	-18.054	1.00	99.85	C
ATOM	4309	CA	ILE	C	101	59.772	115.747	-18.829	1.00	99.85	C
ATOM	4310	CB	ILE	C	101	59.283	116.908	-17.950	1.00	100.07	C
ATOM	4311	CG2	ILE	C	101	59.308	118.217	-18.735	1.00	100.07	C
ATOM	4312	CG1	ILE	C	101	57.860	116.578	-17.460	1.00	100.07	C
ATOM	4313	CD	ILE	C	101	57.155	117.678	-16.675	1.00	100.07	C
ATOM	4314	C	ILE	C	101	61.176	115.948	-19.362	1.00	99.85	C
ATOM	4315	O	ILE	C	101	62.139	115.500	-18.740	1.00	99.85	C
ATOM	4316	N	HIS	C	102	61.299	116.579	-20.523	1.00	77.59	C
ATOM	4317	CA	HIS	C	102	62.614	116.754	-21.123	1.00	77.59	C
ATOM	4318	CB	HIS	C	102	62.802	115.728	-22.235	1.00	100.07	C
ATOM	4319	CG	HIS	C	102	62.959	114.319	-21.750	1.00	100.07	C
ATOM	4320	CD2	HIS	C	102	63.493	113.821	-20.608	1.00	100.07	C
ATOM	4321	ND1	HIS	C	102	62.602	113.227	-22.515	1.00	100.07	C
ATOM	4322	CE1	HIS	C	102	62.914	112.119	-21.867	1.00	100.07	C
ATOM	4323	NE2	HIS	C	102	63.455	112.447	-20.714	1.00	100.07	C
ATOM	4324	C	HIS	C	102	62.939	118.128	-21.678	1.00	77.59	C
ATOM	4325	O	HIS	C	102	62.096	119.024	-21.743	1.00	77.59	C
ATOM	4326	N	LYS	C	103	64.203	118.257	-22.071	1.00	100.07	C
ATOM	4327	CA	LYS	C	103	64.743	119.474	-22.658	1.00	100.07	C
ATOM	4328	CB	LYS	C	103	66.151	119.759	-22.120	1.00	100.07	C
ATOM	4329	CG	LYS	C	103	66.675	121.111	-22.547	1.00	100.07	C
ATOM	4330	CD	LYS	C	103	65.645	122.170	-22.196	1.00	100.07	C



ATOM	4331	CE	LYS	C	103	66.091	123.545	-22.632	1.00100.07	C
ATOM	4332	NZ	LYS	C	103	65.001	124.542	-22.380	1.00100.07	C
ATOM	4333	C	LYS	C	103	64.825	119.269	-24.160	1.00100.07	C
ATOM	4334	O	LYS	C	103	65.009	120.214	-24.925	1.00100.07	C
ATOM	4335	N	ASP	C	104	64.708	118.003	-24.555	1.00 67.51	C
ATOM	4336	CA	ASP	C	104	64.742	117.584	-25.943	1.00 67.51	C
ATOM	4337	CB	ASP	C	104	65.471	116.239	-26.057	1.00100.07	C
ATOM	4338	CG	ASP	C	104	65.095	115.273	-24.945	1.00100.07	C
ATOM	4339	OD1	ASP	C	104	65.371	115.584	-23.762	1.00100.07	C
ATOM	4340	OD2	ASP	C	104	64.526	114.207	-25.258	1.00100.07	C
ATOM	4341	C	ASP	C	104	63.296	117.457	-26.389	1.00 67.51	C
ATOM	4342	O	ASP	C	104	62.995	116.842	-27.408	1.00 67.51	C
ATOM	4343	N	THR	C	105	62.398	118.065	-25.624	1.00100.07	C
ATOM	4344	CA	THR	C	105	60.978	117.999	-25.942	1.00100.07	C
ATOM	4345	CB	THR	C	105	60.687	118.617	-27.355	1.00100.07	C
ATOM	4346	OG1	THR	C	105	60.778	120.047	-27.268	1.00100.07	C
ATOM	4347	CG2	THR	C	105	59.297	118.238	-27.859	1.00100.07	C
ATOM	4348	C	THR	C	105	60.531	116.526	-25.867	1.00100.07	C
ATOM	4349	O	THR	C	105	60.421	115.833	-26.885	1.00100.07	C
ATOM	4350	N	GLY	C	106	60.307	116.058	-24.639	1.00 91.69	C
ATOM	4351	CA	GLY	C	106	59.873	114.694	-24.395	1.00 91.69	C
ATOM	4352	C	GLY	C	106	58.988	114.721	-23.168	1.00 91.69	C
ATOM	4353	O	GLY	C	106	59.471	114.980	-22.067	1.00 91.69	C
ATOM	4354	N	LEU	C	107	57.695	114.467	-23.359	1.00 83.98	C
ATOM	4355	CA	LEU	C	107	56.726	114.468	-22.264	1.00 83.98	C
ATOM	4356	CB	LEU	C	107	55.796	115.661	-22.419	1.00100.07	C
ATOM	4357	CG	LEU	C	107	56.562	116.956	-22.681	1.00100.07	C
ATOM	4358	CD1	LEU	C	107	55.603	118.031	-23.146	1.00100.07	C
ATOM	4359	CD2	LEU	C	107	57.319	117.376	-21.420	1.00100.07	C
ATOM	4360	C	LEU	C	107	55.891	113.188	-22.215	1.00 83.98	C
ATOM	4361	O	LEU	C	107	54.809	113.134	-22.795	1.00 83.98	C
ATOM	4362	N	ILE	C	108	56.389	112.174	-21.508	1.00 99.90	C
ATOM	4363	CA	ILE	C	108	55.699	110.890	-21.392	1.00 99.90	C
ATOM	4364	CB	ILE	C	108	56.715	109.716	-21.334	1.00 98.56	C
ATOM	4365	CG2	ILE	C	108	55.985	108.389	-21.242	1.00 98.56	C
ATOM	4366	CG1	ILE	C	108	57.624	109.731	-22.568	1.00 98.56	C
ATOM	4367	CD	ILE	C	108	58.798	110.695	-22.462	1.00100.07	C
ATOM	4368	C	ILE	C	108	54.769	110.761	-20.173	1.00 99.90	C
ATOM	4369	O	ILE	C	108	54.928	111.461	-19.166	1.00 99.90	C
ATOM	4370	N	LYS	C	109	53.798	109.851	-20.291	1.00 83.23	C
ATOM	4371	CA	LYS	C	109	52.824	109.545	-19.237	1.00 83.23	C
ATOM	4372	CB	LYS	C	109	51.456	110.164	-19.541	1.00 63.06	C
ATOM	4373	CG	LYS	C	109	51.423	111.668	-19.522	1.00 63.06	C
ATOM	4374	CD	LYS	C	109	50.018	112.171	-19.298	1.00 63.06	C
ATOM	4375	CE	LYS	C	109	49.999	113.681	-19.374	1.00 63.06	C
ATOM	4376	NZ	LYS	C	109	48.740	114.222	-18.831	1.00 63.06	C
ATOM	4377	C	LYS	C	109	52.652	108.029	-19.143	1.00 83.23	C
ATOM	4378	O	LYS	C	109	52.062	107.411	-20.031	1.00 83.23	C
ATOM	4379	N	GLU	C	110	53.165	107.427	-18.077	1.00 77.31	C
ATOM	4380	CA	GLU	C	110	53.030	105.989	-17.918	1.00 77.31	C
ATOM	4381	CB	GLU	C	110	54.172	105.414	-17.089	1.00100.07	C
ATOM	4382	CG	GLU	C	110	55.357	105.003	-17.924	1.00100.07	C
ATOM	4383	CD	GLU	C	110	55.059	103.793	-18.771	1.00100.07	C
ATOM	4384	OE1	GLU	C	110	54.516	102.810	-18.216	1.00100.07	C
ATOM	4385	OE2	GLU	C	110	55.368	103.820	-19.984	1.00100.07	C
ATOM	4386	C	GLU	C	110	51.710	105.629	-17.285	1.00 77.31	C
ATOM	4387	O	GLU	C	110	51.303	106.202	-16.269	1.00 77.31	C
ATOM	4388	N	ASP	C	111	51.052	104.662	-17.902	1.00100.07	C
ATOM	4389	CA	ASP	C	111	49.759	104.205	-17.433	1.00100.07	C
ATOM	4390	CB	ASP	C	111	49.245	103.058	-18.298	1.00100.07	C
ATOM	4391	CG	ASP	C	111	48.849	103.516	-19.679	1.00100.07	C
ATOM	4392	OD1	ASP	C	111	48.002	104.435	-19.768	1.00100.07	C
ATOM	4393	OD2	ASP	C	111	49.382	102.961	-20.665	1.00100.07	C
ATOM	4394	C	ASP	C	111	49.703	103.773	-15.984	1.00100.07	C
ATOM	4395	O	ASP	C	111	50.098	102.661	-15.635	1.00100.07	C
ATOM	4396	N	GLU	C	112	49.193	104.673	-15.155	1.00 60.24	C
ATOM	4397	CA	GLU	C	112	49.015	104.385	-13.757	1.00 60.24	C
ATOM	4398	CB	GLU	C	112	48.143	103.135	-13.599	1.00100.07	C
ATOM	4399	CG	GLU	C	112	46.899	103.094	-14.486	1.00100.07	C
ATOM	4400	CD	GLU	C	112	45.965	104.272	-14.275	1.00100.07	C
ATOM	4401	OE1	GLU	C	112	46.219	105.068	-13.347	1.00100.07	C
ATOM	4402	OE2	GLU	C	112	44.974	104.396	-15.030	1.00100.07	C
ATOM	4403	C	GLU	C	112	50.340	104.145	-13.080	1.00 60.24	C
ATOM	4404	O	GLU	C	112	50.612	104.731	-12.038	1.00 60.24	C
ATOM	4405	N	VAL	C	113	51.159	103.280	-13.661	1.00 82.31	C
ATOM	4406	CA	VAL	C	113	52.428	102.960	-13.046	1.00 82.31	C
ATOM	4407	CB	VAL	C	113	53.241	104.206	-12.822	1.00100.07	C
ATOM	4408	CG1	VAL	C	113	54.650	103.836	-12.419	1.00100.07	C
ATOM	4409	CG2	VAL	C	113	53.204	105.051	-14.067	1.00100.07	C
ATOM	4410	C	VAL	C	113	52.007	102.384	-11.702	1.00 82.31	C
ATOM	4411	O	VAL	C	113	52.154	103.006	-10.645	1.00 82.31	C
ATOM	4412	N	PHE	C	114	51.436	101.192	-11.770	1.00 52.03	C
ATOM	4413	CA	PHE	C	114	50.933	100.486	-10.606	1.00 52.03	C
ATOM	4414	CB	PHE	C	114	50.599	99.042	-11.019	1.00100.07	C



ATOM	4415	CG	PHE	C	114	49.751	98.951	-12.287	1.00100.07	C
ATOM	4416	CD1	PHE	C	114	50.295	99.269	-13.538	1.00100.07	C
ATOM	4417	CD2	PHE	C	114	48.401	98.590	-12.224	1.00100.07	C
ATOM	4418	CE1	PHE	C	114	49.507	99.236	-14.706	1.00100.07	C
ATOM	4419	CE2	PHE	C	114	47.607	98.556	-13.391	1.00100.07	C
ATOM	4420	CZ	PHE	C	114	48.165	98.879	-14.629	1.00100.07	C
ATOM	4421	C	PHE	C	114	51.935	100.561	-9.454	1.00 52.03	C
ATOM	4422	O	PHE	C	114	53.125	100.791	-9.664	1.00 52.03	C
ATOM	4423	N	LEU	C	115	51.456	100.380	-8.233	1.00 99.90	C
ATOM	4424	CA	LEU	C	115	52.350	100.469	-7.096	1.00 99.90	C
ATOM	4425	CB	LEU	C	115	52.359	101.915	-6.594	1.00100.07	C
ATOM	4426	CG	LEU	C	115	53.452	102.402	-5.645	1.00100.07	C
ATOM	4427	CD1	LEU	C	115	54.793	101.762	-5.993	1.00100.07	C
ATOM	4428	CD2	LEU	C	115	53.526	103.917	-5.746	1.00100.07	C
ATOM	4429	C	LEU	C	115	52.000	99.514	-5.964	1.00 99.90	C
ATOM	4430	O	LEU	C	115	51.373	98.468	-6.172	1.00 99.90	C
ATOM	4431	N	GLY	C	116	52.433	99.890	-4.765	1.00 61.19	C
ATOM	4432	CA	GLY	C	116	52.197	99.086	-3.590	1.00 61.19	C
ATOM	4433	C	GLY	C	116	50.750	98.997	-3.178	1.00 61.19	C
ATOM	4434	O	GLY	C	116	49.893	99.733	-3.664	1.00 61.19	C
ATOM	4435	N	HIS	C	117	50.490	98.067	-2.268	1.00 50.40	C
ATOM	4436	CA	HIS	C	117	49.157	97.833	-1.737	1.00 50.40	C
ATOM	4437	CB	HIS	C	117	48.960	96.340	-1.472	1.00 99.90	C
ATOM	4438	CG	HIS	C	117	48.949	95.495	-2.706	1.00 99.90	C
ATOM	4439	CD2	HIS	C	117	49.883	94.670	-3.234	1.00 99.90	C
ATOM	4440	ND1	HIS	C	117	47.847	95.402	-3.534	1.00 99.90	C
ATOM	4441	CE1	HIS	C	117	48.108	94.551	-4.514	1.00 99.90	C
ATOM	4442	NE2	HIS	C	117	49.336	94.096	-4.353	1.00 99.90	C
ATOM	4443	C	HIS	C	117	49.001	98.600	-0.418	1.00 50.40	C
ATOM	4444	O	HIS	C	117	49.831	98.475	0.482	1.00 50.40	C
ATOM	4445	N	LEU	C	118	47.932	99.383	-0.308	1.00 44.36	C
ATOM	4446	CA	LEU	C	118	47.687	100.162	0.898	1.00 44.36	C
ATOM	4447	CB	LEU	C	118	47.320	101.600	0.529	1.00100.07	C
ATOM	4448	CG	LEU	C	118	47.573	102.670	1.592	1.00100.07	C
ATOM	4449	CD1	LEU	C	118	46.828	103.957	1.238	1.00100.07	C
ATOM	4450	CD2	LEU	C	118	47.106	102.159	2.922	1.00100.07	C
ATOM	4451	C	LEU	C	118	46.537	99.527	1.659	1.00 44.36	C
ATOM	4452	O	LEU	C	118	45.391	99.674	1.260	1.00 44.36	C
ATOM	4453	N	PRO	C	119	46.836	98.832	2.771	1.00 33.57	C
ATOM	4454	CD	PRO	C	119	48.155	98.733	3.398	1.00100.07	C
ATOM	4455	CA	PRO	C	119	45.815	98.161	3.609	1.00 33.57	C
ATOM	4456	CB	PRO	C	119	46.560	97.900	4.925	1.00100.07	C
ATOM	4457	CG	PRO	C	119	47.805	98.748	4.853	1.00100.07	C
ATOM	4458	C	PRO	C	119	44.476	98.877	3.812	1.00 33.57	C
ATOM	4459	O	PRO	C	119	44.404	100.014	4.272	1.00 33.57	C
ATOM	4460	N	LEU	C	120	43.403	98.179	3.460	1.00 48.29	C
ATOM	4461	CA	LEU	C	120	42.067	98.726	3.572	1.00 48.29	C
ATOM	4462	CB	LEU	C	120	41.163	98.034	2.563	1.00100.07	C
ATOM	4463	CG	LEU	C	120	41.822	98.110	1.183	1.00100.07	C
ATOM	4464	CD1	LEU	C	120	41.022	97.315	0.181	1.00100.07	C
ATOM	4465	CD2	LEU	C	120	41.940	99.561	0.745	1.00100.07	C
ATOM	4466	C	LEU	C	120	41.599	98.497	4.980	1.00 48.29	C
ATOM	4467	O	LEU	C	120	42.148	97.645	5.672	1.00 48.29	C
ATOM	4468	N	MET	C	121	40.609	99.277	5.407	1.00 38.60	C
ATOM	4469	CA	MET	C	121	40.074	99.175	6.757	1.00 38.60	C
ATOM	4470	CB	MET	C	121	40.019	100.551	7.423	1.00 99.86	C
ATOM	4471	CG	MET	C	121	39.742	100.513	8.924	1.00 99.86	C
ATOM	4472	SD	MET	C	121	39.254	102.116	9.631	1.00 99.86	C
ATOM	4473	CE	MET	C	121	40.791	103.008	9.614	1.00 99.86	C
ATOM	4474	C	MET	C	121	38.681	98.605	6.675	1.00 38.60	C
ATOM	4475	O	MET	C	121	37.857	99.072	5.894	1.00 38.60	C
ATOM	4476	N	THR	C	122	38.418	97.582	7.475	1.00 51.97	C
ATOM	4477	CA	THR	C	122	37.107	96.977	7.472	1.00 51.97	C
ATOM	4478	CB	THR	C	122	37.073	95.780	8.410	1.00 98.89	C
ATOM	4479	OG1	THR	C	122	35.866	95.042	8.200	1.00 98.89	C
ATOM	4480	CG2	THR	C	122	37.143	96.235	9.844	1.00 98.89	C
ATOM	4481	C	THR	C	122	36.170	98.071	7.964	1.00 51.97	C
ATOM	4482	O	THR	C	122	36.554	99.232	7.991	1.00 51.97	C
ATOM	4483	N	GLU	C	123	34.952	97.722	8.359	1.00 43.02	C
ATOM	4484	CA	GLU	C	123	34.006	98.729	8.841	1.00 43.02	C
ATOM	4485	CB	GLU	C	123	32.602	98.148	8.913	1.00100.07	C
ATOM	4486	CG	GLU	C	123	32.119	97.584	7.611	1.00100.07	C
ATOM	4487	CD	GLU	C	123	32.953	96.407	7.159	1.00100.07	C
ATOM	4488	OE1	GLU	C	123	32.957	95.369	7.863	1.00100.07	C
ATOM	4489	OE2	GLU	C	123	33.613	96.528	6.107	1.00100.07	C
ATOM	4490	C	GLU	C	123	34.373	99.258	10.217	1.00 43.02	C
ATOM	4491	O	GLU	C	123	33.592	99.969	10.834	1.00 43.02	C
ATOM	4492	N	ASP	C	124	35.558	98.900	10.696	1.00100.07	C
ATOM	4493	CA	ASP	C	124	36.023	99.326	12.008	1.00100.07	C
ATOM	4494	CB	ASP	C	124	35.333	98.487	13.093	1.00100.07	C
ATOM	4495	CG	ASP	C	124	34.916	97.114	12.597	1.00100.07	C
ATOM	4496	OD1	ASP	C	124	34.106	97.044	11.650	1.00100.07	C
ATOM	4497	OD2	ASP	C	124	35.391	96.101	13.153	1.00100.07	C
ATOM	4498	C	ASP	C	124	37.553	99.255	12.164	1.00100.07	C



ATOM	4499	O	ASP	C	124	38.246	100.268	12.042	1.00100.07	C
ATOM	4500	N	GLY	C	125	38.082	98.064	12.434	1.00100.06	C
ATOM	4501	CA	GLY	C	125	39.519	97.916	12.599	1.00100.06	C
ATOM	4502	C	GLY	C	125	40.209	97.514	11.310	1.00100.06	C
ATOM	4503	O	GLY	C	125	39.708	97.784	10.221	1.00100.06	C
ATOM	4504	N	SER	C	126	41.356	96.856	11.426	1.00 42.10	C
ATOM	4505	CA	SER	C	126	42.125	96.434	10.255	1.00 42.10	C
ATOM	4506	CB	SER	C	126	43.470	97.167	10.226	1.00 16.52	C
ATOM	4507	OG	SER	C	126	43.449	98.352	9.437	1.00 16.52	C
ATOM	4508	C	SER	C	126	42.388	94.931	10.253	1.00 42.10	C
ATOM	4509	O	SER	C	126	43.047	94.420	11.157	1.00 42.10	C
ATOM	4510	N	PHE	C	127	41.875	94.232	9.237	1.00 43.59	C
ATOM	4511	CA	PHE	C	127	42.066	92.779	9.092	1.00 43.59	C
ATOM	4512	CB	PHE	C	127	40.895	92.134	8.329	1.00100.07	C
ATOM	4513	CG	PHE	C	127	39.595	92.076	9.114	1.00100.07	C
ATOM	4514	CD1	PHE	C	127	38.522	92.902	8.783	1.00100.07	C
ATOM	4515	CD2	PHE	C	127	39.441	91.192	10.184	1.00100.07	C
ATOM	4516	CE1	PHE	C	127	37.318	92.848	9.505	1.00100.07	C
ATOM	4517	CE2	PHE	C	127	38.241	91.134	10.912	1.00100.07	C
ATOM	4518	CZ	PHE	C	127	37.180	91.966	10.568	1.00100.07	C
ATOM	4519	C	PHE	C	127	43.355	92.557	8.316	1.00 43.59	C
ATOM	4520	O	PHE	C	127	43.393	91.799	7.353	1.00 43.59	C
ATOM	4521	N	ILE	C	128	44.392	93.262	8.765	1.00 62.47	C
ATOM	4522	CA	ILE	C	128	45.743	93.247	8.201	1.00 62.47	C
ATOM	4523	CB	ILE	C	128	46.441	94.595	8.432	1.00 99.55	C
ATOM	4524	CG2	ILE	C	128	47.326	94.931	7.244	1.00 99.55	C
ATOM	4525	CG1	ILE	C	128	45.398	95.688	8.677	1.00 99.55	C
ATOM	4526	CD	ILE	C	128	44.307	95.814	7.606	1.00100.07	C
ATOM	4527	C	ILE	C	128	46.592	92.172	8.866	1.00 62.47	C
ATOM	4528	O	ILE	C	128	46.199	91.618	9.889	1.00 62.47	C
ATOM	4529	N	ILE	C	129	47.767	91.903	8.307	1.00 40.50	C
ATOM	4530	CA	ILE	C	129	48.634	90.854	8.840	1.00 40.50	C
ATOM	4531	CB	ILE	C	129	48.634	90.807	10.375	1.00100.07	C
ATOM	4532	CG2	ILE	C	129	49.187	89.462	10.837	1.00100.07	C
ATOM	4533	CG1	ILE	C	129	49.425	91.975	10.955	1.00100.07	C
ATOM	4534	CD	ILE	C	129	50.894	91.681	11.206	1.00100.07	C
ATOM	4535	C	ILE	C	129	48.070	89.509	8.395	1.00 40.50	C
ATOM	4536	O	ILE	C	129	48.771	88.696	7.798	1.00 40.50	C
ATOM	4537	N	ASN	C	130	46.799	89.308	8.748	1.00 72.40	C
ATOM	4538	CA	ASN	C	130	45.993	88.123	8.471	1.00 72.40	C
ATOM	4539	CB	ASN	C	130	46.859	86.892	8.262	1.00100.07	C
ATOM	4540	CG	ASN	C	130	47.369	86.807	6.849	1.00100.07	C
ATOM	4541	OD1	ASN	C	130	46.818	87.438	5.951	1.00100.07	C
ATOM	4542	ND2	ASN	C	130	48.415	86.029	6.637	1.00100.07	C
ATOM	4543	C	ASN	C	130	45.013	87.900	9.614	1.00 72.40	C
ATOM	4544	O	ASN	C	130	43.972	87.265	9.446	1.00 72.40	C
ATOM	4545	N	GLY	C	131	45.363	88.429	10.780	1.00 86.95	C
ATOM	4546	CA	GLY	C	131	44.499	88.344	11.944	1.00 86.95	C
ATOM	4547	C	GLY	C	131	44.131	89.787	12.247	1.00 86.95	C
ATOM	4548	O	GLY	C	131	45.017	90.612	12.455	1.00 86.95	C
ATOM	4549	N	ALA	C	132	42.842	90.109	12.265	1.00 40.44	C
ATOM	4550	CA	ALA	C	132	42.398	91.483	12.511	1.00 40.44	C
ATOM	4551	CB	ALA	C	132	40.893	91.487	12.835	1.00 5.07	C
ATOM	4552	C	ALA	C	132	43.195	92.180	13.630	1.00 40.44	C
ATOM	4553	O	ALA	C	132	43.742	91.517	14.507	1.00 40.44	C
ATOM	4554	N	ASP	C	133	43.278	93.514	13.571	1.00 39.16	C
ATOM	4555	CA	ASP	C	133	43.986	94.315	14.583	1.00 39.16	C
ATOM	4556	CB	ASP	C	133	45.476	93.952	14.614	1.00100.07	C
ATOM	4557	CG	ASP	C	133	46.090	93.891	13.238	1.00100.07	C
ATOM	4558	OD1	ASP	C	133	45.994	94.891	12.496	1.00100.07	C
ATOM	4559	OD2	ASP	C	133	46.675	92.839	12.903	1.00100.07	C
ATOM	4560	C	ASP	C	133	43.825	95.842	14.446	1.00 39.16	C
ATOM	4561	O	ASP	C	133	43.762	96.367	13.334	1.00 39.16	C
ATOM	4562	N	ARG	C	134	43.753	96.531	15.593	1.00 19.49	C
ATOM	4563	CA	ARG	C	134	43.591	97.984	15.652	1.00 19.49	C
ATOM	4564	CB	ARG	C	134	42.913	98.402	16.961	1.00100.07	C
ATOM	4565	CG	ARG	C	134	41.449	97.991	17.112	1.00100.07	C
ATOM	4566	CD	ARG	C	134	40.466	98.872	16.307	1.00100.07	C
ATOM	4567	NE	ARG	C	134	39.064	98.581	16.647	1.00100.07	C
ATOM	4568	CZ	ARG	C	134	38.006	99.211	16.139	1.00100.07	C
ATOM	4569	NH1	ARG	C	134	38.173	100.181	15.253	1.00100.07	C
ATOM	4570	NH2	ARG	C	134	36.780	98.874	16.521	1.00100.07	C
ATOM	4571	C	ARG	C	134	44.929	98.702	15.544	1.00 19.49	C
ATOM	4572	O	ARG	C	134	45.983	98.084	15.692	1.00 19.49	C
ATOM	4573	N	VAL	C	135	44.872	100.014	15.307	1.00 40.37	C
ATOM	4574	CA	VAL	C	135	46.063	100.842	15.169	1.00 40.37	C
ATOM	4575	CB	VAL	C	135	45.918	101.800	13.997	1.00 49.11	C
ATOM	4576	CG1	VAL	C	135	47.062	101.588	13.020	1.00 49.11	C
ATOM	4577	CG2	VAL	C	135	44.587	101.577	13.319	1.00 49.11	C
ATOM	4578	C	VAL	C	135	46.395	101.645	16.430	1.00 40.37	C
ATOM	4579	O	VAL	C	135	47.556	101.738	16.821	1.00 40.37	C
ATOM	4580	N	ILE	C	136	45.385	102.236	17.059	1.00 46.74	C
ATOM	4581	CA	ILE	C	136	45.576	102.992	18.304	1.00 46.74	C
ATOM	4582	CB	ILE	C	136	46.534	102.285	19.265	1.00 33.21	C



ATOM	4583	CG2	ILE	C	136	46.542	103.009	20.579	1.00	33.21	C
ATOM	4584	CG1	ILE	C	136	46.118	100.835	19.448	1.00	33.21	C
ATOM	4585	CD	ILE	C	136	44.644	100.653	19.701	1.00	73.39	C
ATOM	4586	C	ILE	C	136	46.080	104.413	18.193	1.00	46.74	C
ATOM	4587	O	ILE	C	136	47.275	104.659	18.067	1.00	46.74	C
ATOM	4588	N	VAL	C	137	45.157	105.353	18.281	1.00	30.06	C
ATOM	4589	CA	VAL	C	137	45.500	106.753	18.203	1.00	30.06	C
ATOM	4590	CB	VAL	C	137	44.342	107.561	18.740	1.00	64.43	C
ATOM	4591	CG1	VAL	C	137	44.443	108.968	18.263	1.00	64.43	C
ATOM	4592	CG2	VAL	C	137	43.034	106.931	18.293	1.00	64.43	C
ATOM	4593	C	VAL	C	137	46.771	107.022	19.018	1.00	30.06	C
ATOM	4594	O	VAL	C	137	46.769	106.871	20.232	1.00	30.06	C
ATOM	4595	N	SER	C	138	47.841	107.431	18.336	1.00	32.80	C
ATOM	4596	CA	SER	C	138	49.162	107.692	18.946	1.00	32.80	C
ATOM	4597	CB	SER	C	138	50.210	108.075	17.891	1.00	91.01	C
ATOM	4598	OG	SER	C	138	51.464	108.350	18.526	1.00	91.01	C
ATOM	4599	C	SER	C	138	49.362	108.705	20.063	1.00	32.80	C
ATOM	4600	O	SER	C	138	49.628	109.872	19.793	1.00	32.80	C
ATOM	4601	N	GLN	C	139	49.276	108.247	21.307	1.00	52.72	C
ATOM	4602	CA	GLN	C	139	49.538	109.057	22.504	1.00	52.72	C
ATOM	4603	CB	GLN	C	139	50.884	108.618	23.049	1.00	81.44	C
ATOM	4604	CG	GLN	C	139	51.087	108.824	24.493	1.00	81.44	C
ATOM	4605	CD	GLN	C	139	52.080	107.836	25.010	1.00	81.44	C
ATOM	4606	OE1	GLN	C	139	53.249	107.855	24.633	1.00	81.44	C
ATOM	4607	NE2	GLN	C	139	51.616	106.933	25.849	1.00	81.44	C
ATOM	4608	C	GLN	C	139	49.552	110.582	22.381	1.00	52.72	C
ATOM	4609	O	GLN	C	139	48.756	111.267	23.031	1.00	52.72	C
ATOM	4610	N	ILE	C	140	50.524	111.076	21.602	1.00	61.34	C
ATOM	4611	CA	ILE	C	140	50.750	112.497	21.303	1.00	61.34	C
ATOM	4612	CB	ILE	C	140	49.900	113.403	22.199	1.00	66.08	C
ATOM	4613	CG2	ILE	C	140	50.546	114.766	22.332	1.00	66.08	C
ATOM	4614	CG1	ILE	C	140	48.496	113.506	21.617	1.00	66.08	C
ATOM	4615	CD	ILE	C	140	47.519	114.182	22.530	1.00	100.07	C
ATOM	4616	C	ILE	C	140	52.205	113.021	21.323	1.00	61.34	C
ATOM	4617	O	ILE	C	140	53.090	112.481	22.008	1.00	61.34	C
ATOM	4618	N	HIS	C	141	52.411	114.106	20.573	1.00	41.62	C
ATOM	4619	CA	HIS	C	141	53.707	114.758	20.410	1.00	41.62	C
ATOM	4620	CB	HIS	C	141	53.935	115.022	18.931	1.00	100.07	C
ATOM	4621	CG	HIS	C	141	52.958	114.314	18.057	1.00	100.07	C
ATOM	4622	CD2	HIS	C	141	51.763	114.699	17.555	1.00	100.07	C
ATOM	4623	ND1	HIS	C	141	53.115	112.992	17.700	1.00	100.07	C
ATOM	4624	CE1	HIS	C	141	52.052	112.595	17.019	1.00	100.07	C
ATOM	4625	NE2	HIS	C	141	51.218	113.615	16.920	1.00	100.07	C
ATOM	4626	C	HIS	C	141	53.739	116.083	21.126	1.00	41.62	C
ATOM	4627	O	HIS	C	141	54.450	116.995	20.709	1.00	41.62	C
ATOM	4628	N	ARG	C	142	52.959	116.202	22.189	1.00	38.29	C
ATOM	4629	CA	ARG	C	142	52.895	117.457	22.929	1.00	38.29	C
ATOM	4630	CB	ARG	C	142	54.275	117.834	23.503	1.00	51.20	C
ATOM	4631	CG	ARG	C	142	54.308	119.222	24.142	1.00	51.20	C
ATOM	4632	CD	ARG	C	142	55.067	119.258	25.457	1.00	51.20	C
ATOM	4633	NE	ARG	C	142	56.399	119.819	25.309	1.00	51.20	C
ATOM	4634	CZ	ARG	C	142	57.359	119.264	24.583	1.00	51.20	C
ATOM	4635	NH1	ARG	C	142	57.125	118.128	23.940	1.00	51.20	C
ATOM	4636	NH2	ARG	C	142	58.552	119.844	24.501	1.00	51.20	C
ATOM	4637	C	ARG	C	142	52.370	118.601	22.048	1.00	38.29	C
ATOM	4638	O	ARG	C	142	52.106	119.689	22.561	1.00	38.29	C
ATOM	4639	N	SER	C	143	52.233	118.346	20.736	1.00	13.32	C
ATOM	4640	CA	SER	C	143	51.724	119.314	19.744	1.00	13.32	C
ATOM	4641	CB	SER	C	143	50.630	120.195	20.356	1.00	74.48	C
ATOM	4642	OG	SER	C	143	50.188	121.169	19.431	1.00	74.48	C
ATOM	4643	C	SER	C	143	52.803	120.186	19.133	1.00	13.32	C
ATOM	4644	O	SER	C	143	53.581	120.798	19.844	1.00	13.32	C
ATOM	4645	N	PRO	C	144	52.833	120.286	17.798	1.00	33.41	C
ATOM	4646	CD	PRO	C	144	51.686	119.989	16.927	1.00	47.73	C
ATOM	4647	CA	PRO	C	144	53.826	121.084	17.070	1.00	33.41	C
ATOM	4648	CB	PRO	C	144	53.307	121.048	15.637	1.00	47.73	C
ATOM	4649	CG	PRO	C	144	51.838	121.029	15.834	1.00	47.73	C
ATOM	4650	C	PRO	C	144	54.038	122.514	17.569	1.00	33.41	C
ATOM	4651	O	PRO	C	144	53.157	123.103	18.210	1.00	33.41	C
ATOM	4652	N	GLY	C	145	55.225	123.057	17.286	1.00	44.08	C
ATOM	4653	CA	GLY	C	145	55.528	124.422	17.690	1.00	44.08	C
ATOM	4654	C	GLY	C	145	56.897	124.751	18.269	1.00	44.08	C
ATOM	4655	O	GLY	C	145	57.934	124.315	17.770	1.00	44.08	C
ATOM	4656	N	VAL	C	146	56.873	125.555	19.331	1.00	43.75	C
ATOM	4657	CA	VAL	C	146	58.064	126.017	20.054	1.00	43.75	C
ATOM	4658	CB	VAL	C	146	58.742	127.196	19.320	1.00	46.92	C
ATOM	4659	CG1	VAL	C	146	59.609	127.995	20.293	1.00	46.92	C
ATOM	4660	CG2	VAL	C	146	59.576	126.669	18.152	1.00	46.92	C
ATOM	4661	C	VAL	C	146	57.581	126.512	21.416	1.00	43.75	C
ATOM	4662	O	VAL	C	146	56.627	127.296	21.470	1.00	43.75	C
ATOM	4663	N	TYR	C	147	58.212	126.071	22.510	1.00	41.76	C
ATOM	4664	CA	TYR	C	147	57.755	126.524	23.821	1.00	41.76	C
ATOM	4665	CB	TYR	C	147	56.340	125.986	24.091	1.00	49.74	C
ATOM	4666	CG	TYR	C	147	56.027	124.619	23.509	1.00	49.74	C



ATOM	4667	CD1	TYR	C	147	56.758	123.497	23.888	1.00	49.74	C
ATOM	4668	CE1	TYR	C	147	56.441	122.235	23.398	1.00	49.74	C
ATOM	4669	CD2	TYR	C	147	54.965	124.444	22.610	1.00	49.74	C
ATOM	4670	CE2	TYR	C	147	54.644	123.188	22.114	1.00	49.74	C
ATOM	4671	CZ	TYR	C	147	55.387	122.085	22.515	1.00	49.74	C
ATOM	4672	OH	TYR	C	147	55.092	120.822	22.055	1.00	49.74	C
ATOM	4673	C	TYR	C	147	58.590	126.375	25.088	1.00	41.76	C
ATOM	4674	O	TYR	C	147	58.032	126.250	26.177	1.00	41.76	C
ATOM	4675	N	PHE	C	148	59.912	126.413	24.959	1.00100.02	C	C
ATOM	4676	CA	PHE	C	148	60.814	126.367	26.119	1.00100.02	C	C
ATOM	4677	CB	PHE	C	148	60.589	127.621	26.972	1.00	35.32	C
ATOM	4678	CG	PHE	C	148	60.547	128.865	26.161	1.00	35.32	C
ATOM	4679	CD1	PHE	C	148	59.437	129.150	25.366	1.00	35.32	C
ATOM	4680	CD2	PHE	C	148	61.663	129.676	26.064	1.00	35.32	C
ATOM	4681	CE1	PHE	C	148	59.440	130.200	24.478	1.00	35.32	C
ATOM	4682	CE2	PHE	C	148	61.678	130.737	25.172	1.00	35.32	C
ATOM	4683	CZ	PHE	C	148	60.558	130.994	24.377	1.00	35.32	C
ATOM	4684	C	PHE	C	148	60.800	125.145	27.021	1.00100.02	C	C
ATOM	4685	O	PHE	C	148	60.861	124.012	26.539	1.00100.02	C	C
ATOM	4686	N	THR	C	149	60.739	125.410	28.330	1.00	52.16	C
ATOM	4687	CA	THR	C	149	60.737	124.404	29.398	1.00	52.16	C
ATOM	4688	CB	THR	C	149	60.741	122.966	28.849	1.00100.07	C	C
ATOM	4689	OG1	THR	C	149	59.541	122.732	28.104	1.00100.07	C	C
ATOM	4690	CG2	THR	C	149	60.854	121.961	29.984	1.00100.07	C	C
ATOM	4691	C	THR	C	149	62.017	124.567	30.215	1.00	52.16	C
ATOM	4692	O	THR	C	149	63.101	124.674	29.643	1.00	52.16	C
ATOM	4693	N	PRO	C	150	61.913	124.600	31.556	1.00	47.65	C
ATOM	4694	CD	PRO	C	150	60.678	124.839	32.314	1.00	61.69	C
ATOM	4695	CA	PRO	C	150	63.084	124.745	32.436	1.00	47.65	C
ATOM	4696	CB	PRO	C	150	62.465	124.908	33.829	1.00	61.69	C
ATOM	4697	CG	PRO	C	150	61.081	124.376	33.679	1.00	61.69	C
ATOM	4698	C	PRO	C	150	64.140	123.631	32.380	1.00	47.65	C
ATOM	4699	O	PRO	C	150	63.826	122.444	32.362	1.00	47.65	C
ATOM	4700	N	ASP	C	151	65.401	124.055	32.352	1.00	78.09	C
ATOM	4701	CA	ASP	C	151	66.547	123.158	32.275	1.00	78.09	C
ATOM	4702	CB	ASP	C	151	67.816	123.960	31.947	1.00	82.31	C
ATOM	4703	CG	ASP	C	151	69.004	123.072	31.597	1.00	82.31	C
ATOM	4704	OD1	ASP	C	151	69.257	122.103	32.341	1.00	82.31	C
ATOM	4705	OD2	ASP	C	151	69.693	123.349	30.586	1.00	82.31	C
ATOM	4706	C	ASP	C	151	66.733	122.438	33.596	1.00	78.09	C
ATOM	4707	O	ASP	C	151	67.020	123.066	34.613	1.00	78.09	C
ATOM	4708	N	PRO	C	152	66.580	121.105	33.596	1.00100.07	C	C
ATOM	4709	CD	PRO	C	152	66.281	120.281	32.410	1.00100.07	C	C
ATOM	4710	CA	PRO	C	152	66.728	120.264	34.791	1.00100.07	C	C
ATOM	4711	CB	PRO	C	152	66.297	118.887	34.293	1.00100.07	C	C
ATOM	4712	CG	PRO	C	152	66.732	118.906	32.851	1.00100.07	C	C
ATOM	4713	C	PRO	C	152	68.149	120.259	35.364	1.00100.07	C	C
ATOM	4714	O	PRO	C	152	68.400	119.688	36.430	1.00100.07	C	C
ATOM	4715	N	ALA	C	153	69.074	120.890	34.645	1.00	77.78	C
ATOM	4716	CA	ALA	C	153	70.463	120.983	35.083	1.00	77.78	C
ATOM	4717	CB	ALA	C	153	71.398	120.750	33.910	1.00	75.78	C
ATOM	4718	C	ALA	C	153	70.679	122.378	35.662	1.00	77.78	C
ATOM	4719	O	ALA	C	153	71.014	123.314	34.930	1.00	77.78	C
ATOM	4720	N	ARG	C	154	70.494	122.495	36.979	1.00	94.66	C
ATOM	4721	CA	ARG	C	154	70.616	123.764	37.695	1.00	94.66	C
ATOM	4722	CB	ARG	C	154	72.080	124.201	37.803	1.00100.07	C	C
ATOM	4723	CG	ARG	C	154	72.969	123.242	38.612	1.00100.07	C	C
ATOM	4724	CD	ARG	C	154	73.766	123.969	39.701	1.00100.07	C	C
ATOM	4725	NE	ARG	C	154	72.902	124.445	40.786	1.00100.07	C	C
ATOM	4726	CZ	ARG	C	154	73.318	125.157	41.832	1.00100.07	C	C
ATOM	4727	NH1	ARG	C	154	74.599	125.493	41.949	1.00100.07	C	C
ATOM	4728	NH2	ARG	C	154	72.451	125.529	42.768	1.00100.07	C	C
ATOM	4729	C	ARG	C	154	69.790	124.800	36.941	1.00	94.66	C
ATOM	4730	O	ARG	C	154	70.141	125.210	35.839	1.00	94.66	C
ATOM	4731	N	PRO	C	155	68.676	125.237	37.539	1.00	99.90	C
ATOM	4732	CD	PRO	C	155	68.500	125.126	39.000	1.00	66.32	C
ATOM	4733	CA	PRO	C	155	67.739	126.218	36.982	1.00	99.90	C
ATOM	4734	CB	PRO	C	155	67.365	127.035	38.208	1.00	66.32	C
ATOM	4735	CG	PRO	C	155	67.258	125.954	39.252	1.00	66.32	C
ATOM	4736	C	PRO	C	155	68.239	127.073	35.802	1.00	99.90	C
ATOM	4737	O	PRO	C	155	68.902	128.094	35.995	1.00	99.90	C
ATOM	4738	N	GLY	C	156	67.900	126.653	34.581	1.00	82.77	C
ATOM	4739	CA	GLY	C	156	68.337	127.381	33.401	1.00	82.77	C
ATOM	4740	C	GLY	C	156	67.451	127.278	32.168	1.00	82.77	C
ATOM	4741	O	GLY	C	156	67.945	127.289	31.036	1.00	82.77	C
ATOM	4742	N	ARG	C	157	66.145	127.181	32.383	1.00100.07	C	C
ATOM	4743	CA	ARG	C	157	65.163	127.100	31.298	1.00100.07	C	C
ATOM	4744	CB	ARG	C	157	64.694	128.495	30.913	1.00	63.00	C
ATOM	4745	CG	ARG	C	157	64.524	129.435	32.075	1.00	63.00	C
ATOM	4746	CD	ARG	C	157	64.051	128.739	33.335	1.00	63.00	C
ATOM	4747	NE	ARG	C	157	63.404	129.700	34.216	1.00	63.00	C
ATOM	4748	CZ	ARG	C	157	63.177	129.511	35.511	1.00	63.00	C
ATOM	4749	NH1	ARG	C	157	63.552	128.380	36.108	1.00	63.00	C
ATOM	4750	NH2	ARG	C	157	62.560	130.463	36.207	1.00	63.00	C



ATOM	4751	C	ARG	C	157	65.592	126.380	30.022	1.00100.07	C
ATOM	4752	O	ARG	C	157	65.856	125.179	30.038	1.00100.07	C
ATOM	4753	N	TYR	C	158	65.629	127.133	28.922	1.00 80.15	C
ATOM	4754	CA	TYR	C	158	65.999	126.639	27.587	1.00 80.15	C
ATOM	4755	CB	TYR	C	158	66.807	125.340	27.661	1.00100.07	C
ATOM	4756	CG	TYR	C	158	66.052	124.174	27.103	1.00100.07	C
ATOM	4757	CD1	TYR	C	158	65.109	123.493	27.870	1.00100.07	C
ATOM	4758	CE1	TYR	C	158	64.327	122.479	27.320	1.00100.07	C
ATOM	4759	CD2	TYR	C	158	66.207	123.814	25.772	1.00100.07	C
ATOM	4760	CE2	TYR	C	158	65.435	122.807	25.205	1.00100.07	C
ATOM	4761	CZ	TYR	C	158	64.493	122.139	25.978	1.00100.07	C
ATOM	4762	OH	TYR	C	158	63.718	121.148	25.394	1.00100.07	C
ATOM	4763	C	TYR	C	158	64.755	126.407	26.723	1.00 80.15	C
ATOM	4764	O	TYR	C	158	63.676	126.098	27.232	1.00 80.15	C
ATOM	4765	N	ILE	C	159	64.925	126.514	25.409	1.00 23.07	C
ATOM	4766	CA	ILE	C	159	63.802	126.366	24.494	1.00 23.07	C
ATOM	4767	CB	ILE	C	159	63.603	127.614	23.606	1.00100.07	C
ATOM	4768	CG2	ILE	C	159	62.118	127.883	23.421	1.00100.07	C
ATOM	4769	CG1	ILE	C	159	64.308	128.822	24.212	1.00100.07	C
ATOM	4770	CD	ILE	C	159	65.809	128.767	24.080	1.00100.07	C
ATOM	4771	C	ILE	C	159	63.843	125.195	23.542	1.00 23.07	C
ATOM	4772	O	ILE	C	159	64.884	124.840	22.983	1.00 23.07	C
ATOM	4773	N	ALA	C	160	62.662	124.631	23.339	1.00 47.25	C
ATOM	4774	CA	ALA	C	160	62.475	123.511	22.446	1.00 47.25	C
ATOM	4775	CB	ALA	C	160	61.698	122.408	23.175	1.00 16.84	C
ATOM	4776	C	ALA	C	160	61.713	123.998	21.204	1.00 47.25	C
ATOM	4777	O	ALA	C	160	60.667	124.642	21.320	1.00 47.25	C
ATOM	4778	N	SER	C	161	62.257	123.725	20.022	1.00 99.36	C
ATOM	4779	CA	SER	C	161	61.606	124.115	18.772	1.00 99.36	C
ATOM	4780	CB	SER	C	161	62.640	124.628	17.753	1.00 42.46	C
ATOM	4781	OG	SER	C	161	62.631	126.046	17.644	1.00 42.46	C
ATOM	4782	C	SER	C	161	60.904	122.873	18.228	1.00 99.36	C
ATOM	4783	O	SER	C	161	61.546	121.999	17.638	1.00 99.36	C
ATOM	4784	N	ILE	C	162	59.591	122.794	18.436	1.00100.02	C
ATOM	4785	CA	ILE	C	162	58.806	121.647	17.984	1.00100.02	C
ATOM	4786	CB	ILE	C	162	57.395	121.632	18.588	1.00100.07	C
ATOM	4787	CG2	ILE	C	162	56.686	120.346	18.211	1.00100.07	C
ATOM	4788	CG1	ILE	C	162	57.472	121.682	20.110	1.00100.07	C
ATOM	4789	CD	ILE	C	162	58.042	122.957	20.665	1.00100.07	C
ATOM	4790	C	ILE	C	162	58.672	121.582	16.484	1.00100.02	C
ATOM	4791	O	ILE	C	162	59.157	122.455	15.774	1.00100.02	C
ATOM	4792	N	ILE	C	163	58.002	120.546	15.998	1.00 27.30	C
ATOM	4793	CA	ILE	C	163	57.839	120.380	14.571	1.00 27.30	C
ATOM	4794	CB	ILE	C	163	58.935	119.477	14.050	1.00 37.66	C
ATOM	4795	CG2	ILE	C	163	58.549	118.894	12.717	1.00 37.66	C
ATOM	4796	CG1	ILE	C	163	60.237	120.269	13.991	1.00 37.66	C
ATOM	4797	CD	ILE	C	163	60.127	121.562	13.217	1.00 37.66	C
ATOM	4798	C	ILE	C	163	56.486	119.803	14.208	1.00 27.30	C
ATOM	4799	O	ILE	C	163	55.944	118.980	14.948	1.00 27.30	C
ATOM	4800	N	PRO	C	164	55.921	120.222	13.055	1.00100.07	C
ATOM	4801	CD	PRO	C	164	56.538	121.109	12.051	1.00 96.76	C
ATOM	4802	CA	PRO	C	164	54.614	119.749	12.576	1.00100.07	C
ATOM	4803	CB	PRO	C	164	54.589	120.207	11.107	1.00 96.76	C
ATOM	4804	CG	PRO	C	164	56.036	120.516	10.768	1.00 96.76	C
ATOM	4805	C	PRO	C	164	54.360	118.244	12.722	1.00100.07	C
ATOM	4806	O	PRO	C	164	53.236	117.772	12.520	1.00100.07	C
ATOM	4807	N	LEU	C	165	55.406	117.507	13.083	1.00 69.74	C
ATOM	4808	CA	LEU	C	165	55.330	116.062	13.255	1.00 69.74	C
ATOM	4809	CB	LEU	C	165	54.893	115.414	11.943	1.00100.07	C
ATOM	4810	CG	LEU	C	165	54.813	113.890	11.877	1.00100.07	C
ATOM	4811	CD1	LEU	C	165	53.422	113.447	12.315	1.00100.07	C
ATOM	4812	CD2	LEU	C	165	55.111	113.420	10.459	1.00100.07	C
ATOM	4813	C	LEU	C	165	56.727	115.576	13.600	1.00 69.74	C
ATOM	4814	O	LEU	C	165	57.701	116.279	13.357	1.00 69.74	C
ATOM	4815	N	PRO	C	166	56.850	114.379	14.192	1.00 90.60	C
ATOM	4816	CD	PRO	C	166	55.844	113.495	14.807	1.00 49.54	C
ATOM	4817	CA	PRO	C	166	58.208	113.925	14.504	1.00 90.60	C
ATOM	4818	CB	PRO	C	166	57.969	112.786	15.505	1.00 49.54	C
ATOM	4819	CG	PRO	C	166	56.647	112.240	15.083	1.00 49.54	C
ATOM	4820	C	PRO	C	166	58.918	113.481	13.206	1.00 90.60	C
ATOM	4821	O	PRO	C	166	60.122	113.209	13.192	1.00 90.60	C
ATOM	4822	N	LYS	C	167	58.151	113.430	12.116	1.00100.01	C
ATOM	4823	CA	LYS	C	167	58.668	113.048	10.800	1.00100.01	C
ATOM	4824	CB	LYS	C	167	58.156	111.655	10.396	1.00100.07	C
ATOM	4825	CG	LYS	C	167	58.679	110.494	11.256	1.00100.07	C
ATOM	4826	CD	LYS	C	167	58.161	109.131	10.759	1.00100.07	C
ATOM	4827	CE	LYS	C	167	58.618	107.963	11.653	1.00100.07	C
ATOM	4828	NZ	LYS	C	167	58.148	106.610	11.188	1.00100.07	C
ATOM	4829	C	LYS	C	167	58.235	114.083	9.755	1.00100.01	C
ATOM	4830	O	LYS	C	167	57.872	113.739	8.627	1.00100.01	C
ATOM	4831	N	ARG	C	168	58.276	115.354	10.146	1.00 64.31	C
ATOM	4832	CA	ARG	C	168	57.900	116.453	9.263	1.00 64.31	C
ATOM	4833	CB	ARG	C	168	56.396	116.704	9.374	1.00 77.54	C
ATOM	4834	CG	ARG	C	168	55.723	117.009	8.053	1.00 77.54	C



ATOM	4835	CD	ARG	C	168	56.177	118.346	7.512	1.00	77.54	C
ATOM	4836	NE	ARG	C	168	55.819	118.499	6.109	1.00	77.54	C
ATOM	4837	CZ	ARG	C	168	56.249	117.690	5.147	1.00	77.54	C
ATOM	4838	NH1	ARG	C	168	57.049	116.673	5.444	1.00	77.54	C
ATOM	4839	NH2	ARG	C	168	55.885	117.898	3.888	1.00	77.54	C
ATOM	4840	C	ARG	C	168	58.691	117.720	9.630	1.00	64.31	C
ATOM	4841	O	ARG	C	168	58.182	118.842	9.536	1.00	64.31	C
ATOM	4842	N	GLY	C	169	59.943	117.516	10.042	1.00	72.47	C
ATOM	4843	CA	GLY	C	169	60.812	118.617	10.429	1.00	72.47	C
ATOM	4844	C	GLY	C	169	61.723	118.316	11.617	1.00	72.47	C
ATOM	4845	O	GLY	C	169	61.381	117.508	12.482	1.00	72.47	C
ATOM	4846	N	PRO	C	170	62.898	118.961	11.694	1.00	89.12	C
ATOM	4847	CD	PRO	C	170	63.498	119.758	10.609	1.00	100.07	C
ATOM	4848	CA	PRO	C	170	63.861	118.759	12.784	1.00	89.12	C
ATOM	4849	CB	PRO	C	170	65.157	119.298	12.193	1.00	100.07	C
ATOM	4850	CG	PRO	C	170	64.676	120.391	11.299	1.00	100.07	C
ATOM	4851	C	PRO	C	170	63.543	119.380	14.155	1.00	89.12	C
ATOM	4852	O	PRO	C	170	63.020	120.494	14.262	1.00	89.12	C
ATOM	4853	N	TRP	C	171	63.898	118.625	15.191	1.00	65.36	C
ATOM	4854	CA	TRP	C	171	63.716	118.969	16.607	1.00	65.36	C
ATOM	4855	CB	TRP	C	171	63.716	117.648	17.400	1.00	59.97	C
ATOM	4856	CG	TRP	C	171	63.110	117.578	18.806	1.00	59.97	C
ATOM	4857	CD2	TRP	C	171	61.945	118.255	19.311	1.00	59.97	C
ATOM	4858	CE2	TRP	C	171	61.694	117.749	20.606	1.00	59.97	C
ATOM	4859	CE3	TRP	C	171	61.082	119.228	18.794	1.00	59.97	C
ATOM	4860	CD1	TRP	C	171	63.505	116.725	19.804	1.00	59.97	C
ATOM	4861	NE1	TRP	C	171	62.662	116.820	20.881	1.00	59.97	C
ATOM	4862	CZ2	TRP	C	171	60.625	118.188	21.391	1.00	59.97	C
ATOM	4863	CZ3	TRP	C	171	60.020	119.658	19.581	1.00	59.97	C
ATOM	4864	CH2	TRP	C	171	59.801	119.138	20.858	1.00	59.97	C
ATOM	4865	C	TRP	C	171	64.931	119.822	17.005	1.00	65.36	C
ATOM	4866	O	TRP	C	171	66.047	119.310	17.078	1.00	65.36	C
ATOM	4867	N	ILE	C	172	64.730	121.116	17.236	1.00	75.20	C
ATOM	4868	CA	ILE	C	172	65.842	121.984	17.626	1.00	75.20	C
ATOM	4869	CB	ILE	C	172	65.914	123.297	16.774	1.00	49.67	C
ATOM	4870	CG2	ILE	C	172	66.771	124.342	17.478	1.00	49.67	C
ATOM	4871	CG1	ILE	C	172	66.553	123.049	15.411	1.00	49.67	C
ATOM	4872	CD	ILE	C	172	66.740	124.339	14.603	1.00	49.67	C
ATOM	4873	C	ILE	C	172	65.686	122.412	19.076	1.00	75.20	C
ATOM	4874	O	ILE	C	172	64.570	122.463	19.596	1.00	75.20	C



ATOM	4919	C	ALA	C	178	78.579	128.251	30.656	1.00	74.18	C
ATOM	4920	O	ALA	C	178	78.916	129.309	30.115	1.00	74.18	C
ATOM	4921	N	SER	C	179	79.250	127.113	30.508	1.00	60.33	C
ATOM	4922	CA	SER	C	179	80.469	127.036	29.717	1.00	60.33	C
ATOM	4923	CB	SER	C	179	81.451	126.053	30.375	1.00	64.32	C
ATOM	4924	OG	SER	C	179	80.799	124.875	30.810	1.00	64.32	C
ATOM	4925	C	SER	C	179	80.212	126.651	28.261	1.00	60.33	C
ATOM	4926	O	SER	C	179	80.744	125.657	27.756	1.00	60.33	C
ATOM	4927	N	GLY	C	180	79.395	127.463	27.594	1.00100.07	C	C
ATOM	4928	CA	GLY	C	180	79.049	127.242	26.197	1.00100.07	C	C
ATOM	4929	C	GLY	C	180	78.168	128.387	25.721	1.00100.07	C	C
ATOM	4930	O	GLY	C	180	78.378	128.961	24.652	1.00100.07	C	C
ATOM	4931	N	VAL	C	181	77.180	128.722	26.546	1.00	88.90	C
ATOM	4932	CA	VAL	C	181	76.236	129.803	26.283	1.00	88.90	C
ATOM	4933	CB	VAL	C	181	76.915	131.185	26.413	1.00	94.12	C
ATOM	4934	CG1	VAL	C	181	75.873	132.285	26.277	1.00	94.12	C
ATOM	4935	CG2	VAL	C	181	77.626	131.293	27.758	1.00	94.12	C
ATOM	4936	C	VAL	C	181	75.552	129.722	24.927	1.00	88.90	C
ATOM	4937	O	VAL	C	181	76.198	129.610	23.892	1.00	88.90	C
ATOM	4938	N	VAL	C	182	74.227	129.775	24.960	1.00	41.38	C
ATOM	4939	CA	VAL	C	182	73.406	129.729	23.766	1.00	41.38	C
ATOM	4940	CB	VAL	C	182	73.349	131.117	23.122	1.00	48.32	C
ATOM	4941	CG1	VAL	C	182	72.150	131.204	22.205	1.00	48.32	C
ATOM	4942	CG2	VAL	C	182	73.280	132.187	24.201	1.00	48.32	C
ATOM	4943	C	VAL	C	182	73.883	128.700	22.728	1.00	41.38	C
ATOM	4944	O	VAL	C	182	74.699	129.007	21.846	1.00	41.38	C
ATOM	4945	N	THR	C	183	73.349	127.481	22.838	1.00	81.84	C
ATOM	4946	CA	THR	C	183	73.685	126.370	21.943	1.00	81.84	C
ATOM	4947	CB	THR	C	183	74.093	125.113	22.722	1.00	64.23	C
ATOM	4948	OG1	THR	C	183	75.115	125.435	23.673	1.00	64.23	C
ATOM	4949	CG2	THR	C	183	74.606	124.059	21.767	1.00	64.23	C
ATOM	4950	C	THR	C	183	72.498	125.969	21.081	1.00	81.84	C
ATOM	4951	O	THR	C	183	71.344	126.077	21.499	1.00	81.84	C
ATOM	4952	N	MET	C	184	72.792	125.482	19.881	1.00	87.56	C
ATOM	4953	CA	MET	C	184	71.755	125.051	18.952	1.00	87.56	C
ATOM	4954	CB	MET	C	184	71.859	125.831	17.641	1.00	35.60	C
ATOM	4955	CG	MET	C	184	70.544	126.411	17.140	1.00	35.60	C
ATOM	4956	SD	MET	C	184	69.546	125.324	16.116	1.00	35.60	C
ATOM	4957	CE	MET	C	184	69.895	125.965	14.526	1.00	35.60	C
ATOM	4958	C	MET	C	184	71.959	123.580	18.666	1.00	87.56	C
ATOM	4959	O	MET	C	184	72.660	123.227	17.721	1.00	87.56	C
ATOM	4960	N	LYS	C	185	71.369	122.717	19.487	1.00	47.66	C
ATOM	4961	CA	LYS	C	185	71.514	121.284	19.259	1.00	47.66	C
ATOM	4962	CB	LYS	C	185	71.545	120.525	20.587	1.00100.07	C	C
ATOM	4963	CG	LYS	C	185	70.406	120.864	21.522	1.00100.07	C	C
ATOM	4964	CD	LYS	C	185	70.432	119.985	22.768	1.00100.07	C	C
ATOM	4965	CE	LYS	C	185	69.298	120.357	23.729	1.00100.07	C	C
ATOM	4966	NZ	LYS	C	185	69.183	119.465	24.924	1.00100.07	C	C
ATOM	4967	C	LYS	C	185	70.350	120.800	18.409	1.00	47.66	C
ATOM	4968	O	LYS	C	185	69.194	121.048	18.752	1.00	47.66	C
ATOM	4969	N	VAL	C	186	70.651	120.144	17.286	1.00	53.45	C
ATOM	4970	CA	VAL	C	186	69.598	119.631	16.412	1.00	53.45	C
ATOM	4971	CB	VAL	C	186	69.804	120.007	14.934	1.00	38.28	C
ATOM	4972	CG1	VAL	C	186	68.477	119.930	14.209	1.00	38.28	C
ATOM	4973	CG2	VAL	C	186	70.390	121.384	14.806	1.00	38.28	C
ATOM	4974	C	VAL	C	186	69.624	118.119	16.505	1.00	53.45	C
ATOM	4975	O	VAL	C	186	69.587	117.558	17.604	1.00	53.45	C
ATOM	4976	N	ASN	C	187	69.688	117.457	15.354	1.00	49.25	C
ATOM	4977	CA	ASN	C	187	69.739	116.005	15.347	1.00	49.25	C
ATOM	4978	CB	ASN	C	187	69.646	115.476	13.912	1.00100.07	C	C
ATOM	4979	CG	ASN	C	187	70.553	116.219	12.952	1.00100.07	C	C
ATOM	4980	OD1	ASN	C	187	71.684	116.558	13.288	1.00100.07	C	C
ATOM	4981	ND2	ASN	C	187	70.063	116.459	11.739	1.00100.07	C	C
ATOM	4982	C	ASN	C	187	71.051	115.557	16.003	1.00	49.25	C
ATOM	4983	O	ASN	C	187	71.154	114.453	16.555	1.00	49.25	C
ATOM	4984	N	LYS	C	188	72.037	116.450	15.969	1.00	96.97	C
ATOM	4985	CA	LYS	C	188	73.361	116.185	16.529	1.00	96.97	C
ATOM	4986	CB	LYS	C	188	74.092	115.171	15.633	1.00100.07	C	C
ATOM	4987	CG	LYS	C	188	75.556	114.905	15.983	1.00100.07	C	C
ATOM	4988	CD	LYS	C	188	76.295	114.220	14.832	1.00100.07	C	C
ATOM	4989	CE	LYS	C	188	75.670	112.879	14.465	1.00100.07	C	C
ATOM	4990	NZ	LYS	C	188	75.753	111.881	15.572	1.00100.07	C	C
ATOM	4991	C	LYS	C	188	74.168	117.489	16.596	1.00	96.97	C
ATOM	4992	O	LYS	C	188	73.862	118.445	15.880	1.00	96.97	C
ATOM	4993	N	ALA	C	189	75.171	117.518	17.478	1.00	79.36	C
ATOM	4994	CA	ALA	C	189	76.092	118.654	17.646	1.00	79.36	C
ATOM	4995	CB	ALA	C	189	76.488	119.205	16.270	1.00100.07	C	C
ATOM	4996	C	ALA	C	189	75.738	119.819	18.569	1.00	79.36	C
ATOM	4997	O	ALA	C	189	74.586	120.225	18.705	1.00	79.36	C
ATOM	4998	N	LYS	C	190	76.781	120.360	19.182	1.00	67.78	C
ATOM	4999	CA	LYS	C	190	76.676	121.487	20.098	1.00	67.78	C
ATOM	5000	CB	LYS	C	190	77.584	121.238	21.323	1.00100.07	C	C
ATOM	5001	CG	LYS	C	190	77.626	122.351	22.396	1.00100.07	C	C
ATOM	5002	CD	LYS	C	190	78.597	122.004	23.549	1.00100.07	C	C



ATOM	5003	CE	LYS	C	190	78.694	123.119	24.602	1.00100.07	C
ATOM	5004	NZ	LYS	C	190	79.616	122.794	25.735	1.00100.07	C
ATOM	5005	C	LYS	C	190	77.134	122.739	19.347	1.00 67.78	C
ATOM	5006	O	LYS	C	190	77.673	123.674	19.951	1.00 67.78	C
ATOM	5007	N	PHE	C	191	76.924	122.762	18.031	1.00 66.37	C
ATOM	5008	CA	PHE	C	191	77.354	123.912	17.241	1.00 66.37	C
ATOM	5009	CB	PHE	C	191	76.927	123.754	15.776	1.00 74.59	C
ATOM	5010	CG	PHE	C	191	75.594	124.358	15.452	1.00 74.59	C
ATOM	5011	CD1	PHE	C	191	75.479	125.718	15.187	1.00 74.59	C
ATOM	5012	CD2	PHE	C	191	74.452	123.566	15.389	1.00 74.59	C
ATOM	5013	CE1	PHE	C	191	74.243	126.280	14.860	1.00 74.59	C
ATOM	5014	CE2	PHE	C	191	73.215	124.120	15.065	1.00 74.59	C
ATOM	5015	CZ	PHE	C	191	73.112	125.477	14.799	1.00 74.59	C
ATOM	5016	C	PHE	C	191	76.804	125.200	17.846	1.00 66.37	C
ATOM	5017	O	PHE	C	191	75.608	125.322	18.120	1.00 66.37	C
ATOM	5018	N	PRO	C	192	77.688	126.173	18.089	1.00 40.46	C
ATOM	5019	CD	PRO	C	192	79.145	126.072	17.906	1.00 76.02	C
ATOM	5020	CA	PRO	C	192	77.328	127.466	18.672	1.00 40.46	C
ATOM	5021	CB	PRO	C	192	78.641	128.232	18.617	1.00 76.02	C
ATOM	5022	CG	PRO	C	192	79.654	127.142	18.834	1.00 76.02	C
ATOM	5023	C	PRO	C	192	76.192	128.195	17.961	1.00 40.46	C
ATOM	5024	O	PRO	C	192	76.264	128.486	16.758	1.00 40.46	C
ATOM	5025	N	LEU	C	193	75.151	128.497	18.734	1.00 60.89	C
ATOM	5026	CA	LEU	C	193	73.963	129.188	18.234	1.00 60.89	C
ATOM	5027	CB	LEU	C	193	73.038	129.533	19.409	1.00 48.89	C
ATOM	5028	CG	LEU	C	193	71.762	130.334	19.125	1.00 48.89	C
ATOM	5029	CD1	LEU	C	193	72.105	131.774	18.814	1.00 48.89	C
ATOM	5030	CD2	LEU	C	193	71.008	129.705	17.976	1.00 48.89	C
ATOM	5031	C	LEU	C	193	74.265	130.454	17.436	1.00 60.89	C
ATOM	5032	O	LEU	C	193	73.502	130.847	16.552	1.00 60.89	C
ATOM	5033	N	VAL	C	194	75.375	131.097	17.757	1.00 71.15	C
ATOM	5034	CA	VAL	C	194	75.743	132.315	17.069	1.00 71.15	C
ATOM	5035	CB	VAL	C	194	76.998	132.936	17.682	1.00100.02	C
ATOM	5036	CG1	VAL	C	194	77.129	134.381	17.226	1.00100.02	C
ATOM	5037	CG2	VAL	C	194	76.947	132.824	19.196	1.00100.02	C
ATOM	5038	C	VAL	C	194	76.029	132.059	15.596	1.00 71.15	C
ATOM	5039	O	VAL	C	194	75.603	132.829	14.727	1.00 71.15	C
ATOM	5040	N	LEU	C	195	76.748	130.977	15.311	1.00 47.15	C
ATOM	5041	CA	LEU	C	195	77.094	130.699	13.935	1.00 47.15	C
ATOM	5042	CB	LEU	C	195	77.851	129.380	13.801	1.00 30.73	C
ATOM	5043	CG	LEU	C	195	78.273	129.060	12.353	1.00 30.73	C
ATOM	5044	CD1	LEU	C	195	79.236	130.113	11.840	1.00 30.73	C
ATOM	5045	CD2	LEU	C	195	78.916	127.672	12.281	1.00 30.73	C
ATOM	5046	C	LEU	C	195	75.872	130.687	13.051	1.00 47.15	C
ATOM	5047	O	LEU	C	195	75.874	131.334	12.014	1.00 47.15	C
ATOM	5048	N	LEU	C	196	74.818	129.977	13.440	1.00 31.79	C
ATOM	5049	CA	LEU	C	196	73.651	129.963	12.567	1.00 31.79	C
ATOM	5050	CB	LEU	C	196	72.472	129.190	13.160	1.00 36.06	C
ATOM	5051	CG	LEU	C	196	71.180	129.532	12.380	1.00 36.06	C
ATOM	5052	CD1	LEU	C	196	71.322	129.076	10.942	1.00 36.06	C
ATOM	5053	CD2	LEU	C	196	69.952	128.902	13.028	1.00 36.06	C
ATOM	5054	C	LEU	C	196	73.189	131.380	12.284	1.00 31.79	C
ATOM	5055	O	LEU	C	196	73.044	131.763	11.120	1.00 31.79	C
ATOM	5056	N	LEU	C	197	72.943	132.139	13.352	1.00 53.35	C
ATOM	5057	CA	LEU	C	197	72.486	133.520	13.238	1.00 53.35	C
ATOM	5058	CB	LEU	C	197	72.559	134.212	14.586	1.00 13.56	C
ATOM	5059	CG	LEU	C	197	71.501	133.713	15.560	1.00 13.56	C
ATOM	5060	CD1	LEU	C	197	71.666	134.372	16.901	1.00 13.56	C
ATOM	5061	CD2	LEU	C	197	70.134	134.019	14.988	1.00 13.56	C
ATOM	5062	C	LEU	C	197	73.354	134.255	12.253	1.00 53.35	C
ATOM	5063	O	LEU	C	197	72.851	134.933	11.347	1.00 53.35	C
ATOM	5064	N	ARG	C	198	74.664	134.119	12.451	1.00 53.87	C
ATOM	5065	CA	ARG	C	198	75.662	134.727	11.573	1.00 53.87	C
ATOM	5066	CB	ARG	C	198	76.960	133.909	11.681	1.00100.07	C
ATOM	5067	CG	ARG	C	198	78.258	134.508	11.127	1.00100.07	C
ATOM	5068	CD	ARG	C	198	79.423	133.535	11.476	1.00100.07	C
ATOM	5069	NE	ARG	C	198	80.659	133.698	10.692	1.00100.07	C
ATOM	5070	CZ	ARG	C	198	81.727	132.896	10.778	1.00100.07	C
ATOM	5071	NH1	ARG	C	198	81.735	131.861	11.614	1.00100.07	C
ATOM	5072	NH2	ARG	C	198	82.794	133.126	10.021	1.00100.07	C
ATOM	5073	C	ARG	C	198	75.027	134.622	10.180	1.00 53.87	C
ATOM	5074	O	ARG	C	198	74.616	135.628	9.594	1.00 53.87	C
ATOM	5075	N	VAL	C	199	74.889	133.391	9.692	1.00 47.34	C
ATOM	5076	CA	VAL	C	199	74.284	133.145	8.392	1.00 47.34	C
ATOM	5077	CB	VAL	C	199	74.040	131.641	8.155	1.00 80.39	C
ATOM	5078	CG1	VAL	C	199	72.734	131.430	7.410	1.00 80.39	C
ATOM	5079	CG2	VAL	C	199	75.188	131.057	7.347	1.00 80.39	C
ATOM	5080	C	VAL	C	199	72.965	133.877	8.254	1.00 47.34	C
ATOM	5081	O	VAL	C	199	72.821	134.734	7.395	1.00 47.34	C
ATOM	5082	N	LEU	C	200	72.004	133.548	9.105	1.00 54.72	C
ATOM	5083	CA	LEU	C	200	70.702	134.188	9.028	1.00 54.72	C
ATOM	5084	CB	LEU	C	200	69.822	133.750	10.209	1.00 51.02	C
ATOM	5085	CG	LEU	C	200	69.795	132.231	10.424	1.00 51.02	C
ATOM	5086	CD1	LEU	C	200	68.560	131.831	11.201	1.00 51.02	C



ATOM	5087	CD2	LEU	C	200	69.817	131.531	9.088	1.00	51.02	C
ATOM	5088	C	LEU	C	200	70.826	135.714	8.956	1.00	54.72	C
ATOM	5089	O	LEU	C	200	69.850	136.420	8.653	1.00	54.72	C
ATOM	5090	N	GLY	C	201	72.025	136.227	9.221	1.00	88.81	C
ATOM	5091	CA	GLY	C	201	72.227	137.661	9.126	1.00	88.81	C
ATOM	5092	C	GLY	C	201	72.626	138.423	10.373	1.00	88.81	C
ATOM	5093	O	GLY	C	201	73.504	139.284	10.309	1.00	88.81	C
ATOM	5094	N	TYR	C	202	71.983	138.133	11.500	1.00	50.03	C
ATOM	5095	CA	TYR	C	202	72.304	138.830	12.736	1.00	50.03	C
ATOM	5096	CB	TYR	C	202	71.568	138.221	13.923	1.00	91.56	C
ATOM	5097	CG	TYR	C	202	70.107	138.029	13.669	1.00	91.56	C
ATOM	5098	CD1	TYR	C	202	69.642	136.875	13.064	1.00	91.56	C
ATOM	5099	CE1	TYR	C	202	68.305	136.705	12.786	1.00	91.56	C
ATOM	5100	CD2	TYR	C	202	69.192	139.018	13.993	1.00	91.56	C
ATOM	5101	CE2	TYR	C	202	67.846	138.861	13.719	1.00	91.56	C
ATOM	5102	CZ	TYR	C	202	67.406	137.700	13.117	1.00	91.56	C
ATOM	5103	OH	TYR	C	202	66.063	137.510	12.877	1.00	91.56	C
ATOM	5104	C	TYR	C	202	73.786	138.717	12.963	1.00	50.03	C
ATOM	5105	O	TYR	C	202	74.435	137.843	12.396	1.00	50.03	C
ATOM	5106	N	ASP	C	203	74.318	139.609	13.788	1.00	56.36	C
ATOM	5107	CA	ASP	C	203	75.738	139.628	14.095	1.00	56.36	C
ATOM	5108	CB	ASP	C	203	76.587	139.377	12.833	1.00	100.07	C
ATOM	5109	CG	ASP	C	203	76.061	140.117	11.599	1.00	100.07	C
ATOM	5110	OD1	ASP	C	203	75.712	141.316	11.712	1.00	100.07	C
ATOM	5111	OD2	ASP	C	203	76.011	139.493	10.511	1.00	100.07	C
ATOM	5112	C	ASP	C	203	76.152	140.949	14.716	1.00	56.36	C
ATOM	5113	O	ASP	C	203	75.904	142.018	14.165	1.00	56.36	C
ATOM	5114	N	GLN	C	204	76.785	140.846	15.876	1.00	72.47	C
ATOM	5115	CA	GLN	C	204	77.287	141.989	16.621	1.00	72.47	C
ATOM	5116	CB	GLN	C	204	78.592	142.483	15.997	1.00	72.98	C
ATOM	5117	CG	GLN	C	204	79.460	143.213	16.987	1.00	72.98	C
ATOM	5118	CD	GLN	C	204	79.751	142.357	18.206	1.00	72.98	C
ATOM	5119	OE1	GLN	C	204	78.831	141.861	18.867	1.00	72.98	C
ATOM	5120	NE2	GLN	C	204	81.035	142.176	18.510	1.00	72.98	C
ATOM	5121	C	GLN	C	204	76.332	143.159	16.742	1.00	72.47	C
ATOM	5122	O	GLN	C	204	75.809	143.650	15.750	1.00	72.47	C
ATOM	5123	N	GLU	C	205	76.124	143.613	17.968	1.00	53.41	C
ATOM	5124	CA	GLU	C	205	75.254	144.749	18.200	1.00	53.41	C
ATOM	5125	CB	GLU	C	205	75.979	146.045	17.820	1.00	100.07	C
ATOM	5126	CG	GLU	C	205	77.134	146.410	18.755	1.00	100.07	C
ATOM	5127	CD	GLU	C	205	77.684	147.806	18.493	1.00	100.07	C
ATOM	5128	OE1	GLU	C	205	78.190	148.044	17.375	1.00	100.07	C
ATOM	5129	OE2	GLU	C	205	77.609	148.666	19.401	1.00	100.07	C
ATOM	5130	C	GLU	C	205	73.933	144.642	17.444	1.00	53.41	C
ATOM	5131	O	GLU	C	205	72.900	144.391	18.058	1.00	53.41	C
ATOM	5132	N	THR	C	206	73.946	144.842	16.125	1.00	100.07	C
ATOM	5133	CA	THR	C	206	72.708	144.727	15.349	1.00	100.07	C
ATOM	5134	CB	THR	C	206	72.987	144.559	13.806	1.00	92.33	C
ATOM	5135	OG1	THR	C	206	71.781	144.790	13.064	1.00	92.33	C
ATOM	5136	CG2	THR	C	206	73.487	143.159	13.481	1.00	92.33	C
ATOM	5137	C	THR	C	206	72.031	143.481	15.916	1.00	100.07	C
ATOM	5138	O	THR	C	206	70.806	143.345	15.898	1.00	100.07	C
ATOM	5139	N	LEU	C	207	72.866	142.589	16.447	1.00	55.66	C
ATOM	5140	CA	LEU	C	207	72.407	141.361	17.070	1.00	55.66	C
ATOM	5141	CB	LEU	C	207	73.581	140.389	17.240	1.00	81.45	C
ATOM	5142	CG	LEU	C	207	73.260	139.010	17.825	1.00	81.45	C
ATOM	5143	CD1	LEU	C	207	72.044	138.425	17.132	1.00	81.45	C
ATOM	5144	CD2	LEU	C	207	74.456	138.090	17.667	1.00	81.45	C
ATOM	5145	C	LEU	C	207	71.859	141.782	18.423	1.00	55.66	C
ATOM	5146	O	LEU	C	207	70.789	142.388	18.501	1.00	55.66	C
ATOM	5147	N	VAL	C	208	72.583	141.458	19.488	1.00	65.79	C
ATOM	5148	CA	VAL	C	208	72.161	141.863	20.820	1.00	65.79	C
ATOM	5149	CB	VAL	C	208	72.873	141.073	21.921	1.00	100.07	C
ATOM	5150	CG1	VAL	C	208	72.747	141.797	23.244	1.00	100.07	C
ATOM	5151	CG2	VAL	C	208	72.273	139.693	22.029	1.00	100.07	C
ATOM	5152	C	VAL	C	208	72.612	143.302	20.871	1.00	65.79	C
ATOM	5153	O	VAL	C	208	73.547	143.674	20.158	1.00	65.79	C
ATOM	5154	N	ARG	C	209	71.979	144.089	21.735	1.00	99.95	C
ATOM	5155	CA	ARG	C	209	72.252	145.519	21.840	1.00	99.95	C
ATOM	5156	CB	ARG	C	209	73.729	145.826	21.533	1.00	100.07	C
ATOM	5157	CG	ARG	C	209	74.700	145.161	22.527	1.00	100.07	C
ATOM	5158	CD	ARG	C	209	76.155	145.589	22.327	1.00	100.07	C
ATOM	5159	NE	ARG	C	209	77.002	145.186	23.453	1.00	100.07	C
ATOM	5160	CZ	ARG	C	209	78.293	145.491	23.580	1.00	100.07	C
ATOM	5161	NH1	ARG	C	209	78.910	146.206	22.648	1.00	100.07	C
ATOM	5162	NH2	ARG	C	209	78.971	145.085	24.648	1.00	100.07	C
ATOM	5163	C	ARG	C	209	71.313	145.972	20.730	1.00	99.95	C
ATOM	5164	O	ARG	C	209	71.573	146.903	19.970	1.00	99.95	C
ATOM	5165	N	GLU	C	210	70.207	145.231	20.683	1.00	71.12	C
ATOM	5166	CA	GLU	C	210	69.107	145.358	19.738	1.00	71.12	C
ATOM	5167	CB	GLU	C	210	69.636	145.502	18.308	1.00	100.07	C
ATOM	5168	CG	GLU	C	210	69.087	146.704	17.548	1.00	100.07	C
ATOM	5169	CD	GLU	C	210	69.703	148.018	17.998	1.00	100.07	C
ATOM	5170	OE1	GLU	C	210	70.945	148.141	17.931	1.00	100.07	C



ATOM	5171	OE2	GLU	C	210	68.946	148.927	18.410	1.00100.07	C
ATOM	5172	C	GLU	C	210	68.385	144.008	19.900	1.00 71.12	C
ATOM	5173	O	GLU	C	210	67.498	143.633	19.121	1.00 71.12	C
ATOM	5174	N	LEU	C	211	68.819	143.273	20.921	1.00 54.95	C
ATOM	5175	CA	LEU	C	211	68.251	141.980	21.264	1.00 54.95	C
ATOM	5176	CB	LEU	C	211	69.046	140.836	20.631	1.00 69.50	C
ATOM	5177	CG	LEU	C	211	68.786	139.481	21.316	1.00 69.50	C
ATOM	5178	CD1	LEU	C	211	67.314	139.125	21.179	1.00 69.50	C
ATOM	5179	CD2	LEU	C	211	69.652	138.389	20.723	1.00 69.50	C
ATOM	5180	C	LEU	C	211	68.321	141.826	22.768	1.00 54.95	C
ATOM	5181	O	LEU	C	211	67.340	142.025	23.493	1.00 54.95	C
ATOM	5182	N	SER	C	212	69.509	141.459	23.222	1.00 99.88	C
ATOM	5183	CA	SER	C	212	69.743	141.255	24.632	1.00 99.88	C
ATOM	5184	CB	SER	C	212	70.710	140.092	24.827	1.00100.07	C
ATOM	5185	OG	SER	C	212	70.406	139.040	23.925	1.00100.07	C
ATOM	5186	C	SER	C	212	70.316	142.534	25.214	1.00 99.88	C
ATOM	5187	O	SER	C	212	70.620	143.474	24.480	1.00 99.88	C
ATOM	5188	N	ALA	C	213	70.461	142.553	26.534	1.00 65.46	C
ATOM	5189	CA	ALA	C	213	70.968	143.699	27.270	1.00 65.46	C
ATOM	5190	CB	ALA	C	213	70.391	144.994	26.729	1.00 50.68	C
ATOM	5191	C	ALA	C	213	70.424	143.442	28.645	1.00 65.46	C
ATOM	5192	O	ALA	C	213	71.167	143.102	29.563	1.00 65.46	C
ATOM	5193	N	TYR	C	214	69.109	143.589	28.779	1.00100.07	C
ATOM	5194	CA	TYR	C	214	68.478	143.334	30.059	1.00100.07	C
ATOM	5195	CB	TYR	C	214	66.943	143.486	29.966	1.00 65.35	C
ATOM	5196	CG	TYR	C	214	66.223	142.649	28.912	1.00 65.35	C
ATOM	5197	CD1	TYR	C	214	66.765	141.448	28.420	1.00 65.35	C
ATOM	5198	CE1	TYR	C	214	66.079	140.661	27.496	1.00 65.35	C
ATOM	5199	CD2	TYR	C	214	64.967	143.034	28.446	1.00 65.35	C
ATOM	5200	CE2	TYR	C	214	64.270	142.249	27.523	1.00 65.35	C
ATOM	5201	CZ	TYR	C	214	64.833	141.070	27.052	1.00 65.35	C
ATOM	5202	OH	TYR	C	214	64.154	140.331	26.113	1.00 65.35	C
ATOM	5203	C	TYR	C	214	68.883	141.914	30.470	1.00100.07	C
ATOM	5204	O	TYR	C	214	69.010	141.597	31.654	1.00100.07	C
ATOM	5205	N	GLY	C	215	69.107	141.072	29.467	1.00 80.24	C
ATOM	5206	CA	GLY	C	215	69.520	139.712	29.711	1.00 80.24	C
ATOM	5207	C	GLY	C	215	70.896	139.628	29.099	1.00 80.24	C
ATOM	5208	O	GLY	C	215	71.041	139.784	27.887	1.00 80.24	C
ATOM	5209	N	ASP	C	216	71.912	139.421	29.931	1.00 73.01	C
ATOM	5210	CA	ASP	C	216	73.282	139.326	29.439	1.00 73.01	C
ATOM	5211	CB	ASP	C	216	74.256	139.267	30.613	1.00100.07	C
ATOM	5212	CG	ASP	C	216	74.180	140.505	31.482	1.00100.07	C
ATOM	5213	OD1	ASP	C	216	73.091	140.775	32.028	1.00100.07	C
ATOM	5214	OD2	ASP	C	216	75.198	141.217	31.613	1.00100.07	C
ATOM	5215	C	ASP	C	216	73.394	138.082	28.589	1.00 73.01	C
ATOM	5216	O	ASP	C	216	72.720	137.959	27.569	1.00 73.01	C
ATOM	5217	N	LEU	C	217	74.243	137.153	28.999	1.00 98.70	C
ATOM	5218	CA	LEU	C	217	74.384	135.915	28.249	1.00 98.70	C
ATOM	5219	CB	LEU	C	217	73.049	135.152	28.263	1.00100.07	C
ATOM	5220	CG	LEU	C	217	72.003	135.553	29.323	1.00100.07	C
ATOM	5221	CD1	LEU	C	217	70.897	134.520	29.360	1.00100.07	C
ATOM	5222	CD2	LEU	C	217	72.634	135.656	30.701	1.00100.07	C
ATOM	5223	C	LEU	C	217	74.801	136.221	26.811	1.00 98.70	C
ATOM	5224	O	LEU	C	217	74.785	135.344	25.943	1.00 98.70	C
ATOM	5225	N	VAL	C	218	75.160	137.480	26.570	1.00 98.49	C
ATOM	5226	CA	VAL	C	218	75.601	137.918	25.253	1.00 98.49	C
ATOM	5227	CB	VAL	C	218	75.181	139.364	24.954	1.00 59.59	C
ATOM	5228	CG1	VAL	C	218	75.392	139.661	23.475	1.00 59.59	C
ATOM	5229	CG2	VAL	C	218	73.744	139.585	25.370	1.00 59.59	C
ATOM	5230	C	VAL	C	218	77.116	137.865	25.264	1.00 98.49	C
ATOM	5231	O	VAL	C	218	77.741	137.482	24.279	1.00 98.49	C
ATOM	5232	N	GLN	C	219	77.699	138.265	26.392	1.00 84.51	C
ATOM	5233	CA	GLN	C	219	79.146	138.236	26.560	1.00 84.51	C
ATOM	5234	CB	GLN	C	219	79.528	138.715	27.965	1.00100.03	C
ATOM	5235	CG	GLN	C	219	79.308	140.201	28.224	1.00100.03	C
ATOM	5236	CD	GLN	C	219	79.498	140.581	29.696	1.00100.03	C
ATOM	5237	OE1	GLN	C	219	80.426	140.112	30.362	1.00100.03	C
ATOM	5238	NE2	GLN	C	219	78.622	141.446	30.202	1.00100.03	C
ATOM	5239	C	GLN	C	219	79.592	136.784	26.365	1.00 84.51	C
ATOM	5240	O	GLN	C	219	80.743	136.426	26.620	1.00 84.51	C
ATOM	5241	N	GLY	C	220	78.650	135.955	25.926	1.00 93.33	C
ATOM	5242	CA	GLY	C	220	78.918	134.554	25.679	1.00 93.33	C
ATOM	5243	C	GLY	C	220	78.294	134.174	24.352	1.00 93.33	C
ATOM	5244	O	GLY	C	220	78.074	132.997	24.059	1.00 93.33	C
ATOM	5245	N	LEU	C	221	78.004	135.194	23.551	1.00 91.77	C
ATOM	5246	CA	LEU	C	221	77.402	135.018	22.233	1.00 91.77	C
ATOM	5247	CB	LEU	C	221	75.948	135.498	22.252	1.00 48.22	C
ATOM	5248	CG	LEU	C	221	75.104	135.084	21.051	1.00 48.22	C
ATOM	5249	CD1	LEU	C	221	74.677	133.644	21.284	1.00 48.22	C
ATOM	5250	CD2	LEU	C	221	73.891	135.998	20.877	1.00 48.22	C
ATOM	5251	C	LEU	C	221	78.191	135.868	21.239	1.00 91.77	C
ATOM	5252	O	LEU	C	221	77.843	135.961	20.063	1.00 91.77	C
ATOM	5253	N	LEU	C	222	79.263	136.481	21.728	1.00 68.85	C
ATOM	5254	CA	LEU	C	222	80.083	137.355	20.913	1.00 68.85	C



ATOM	5255	CB	LEU	C	222	80.269	138.670	21.652	1.00	50.24	C
ATOM	5256	CG	LEU	C	222	78.933	139.159	22.213	1.00	50.24	C
ATOM	5257	CD1	LEU	C	222	79.164	140.356	23.113	1.00	50.24	C
ATOM	5258	CD2	LEU	C	222	77.983	139.500	21.082	1.00	50.24	C
ATOM	5259	C	LEU	C	222	81.434	136.778	20.514	1.00	68.85	C
ATOM	5260	O	LEU	C	222	81.876	136.979	19.391	1.00	68.85	C
ATOM	5261	N	ASP	C	223	82.112	136.079	21.417	1.00	100.07	C
ATOM	5262	CA	ASP	C	223	83.399	135.502	21.040	1.00	100.07	C
ATOM	5263	CB	ASP	C	223	84.250	135.159	22.255	1.00	99.92	C
ATOM	5264	CG	ASP	C	223	85.546	134.498	21.862	1.00	99.92	C
ATOM	5265	OD1	ASP	C	223	86.279	135.089	21.043	1.00	99.92	C
ATOM	5266	OD2	ASP	C	223	85.821	133.388	22.359	1.00	99.92	C
ATOM	5267	C	ASP	C	223	83.191	134.252	20.201	1.00	100.07	C
ATOM	5268	O	ASP	C	223	82.099	133.676	20.188	1.00	100.07	C
ATOM	5269	N	GLU	C	224	84.242	133.823	19.512	1.00	100.07	C
ATOM	5270	CA	GLU	C	224	84.145	132.669	18.625	1.00	100.07	C
ATOM	5271	CB	GLU	C	224	83.543	131.453	19.340	1.00	100.07	C
ATOM	5272	CG	GLU	C	224	83.776	130.126	18.610	1.00	100.07	C
ATOM	5273	CD	GLU	C	224	85.253	129.726	18.548	1.00	100.07	C
ATOM	5274	OE1	GLU	C	224	85.869	129.546	19.621	1.00	100.07	C
ATOM	5275	OE2	GLU	C	224	85.800	129.585	17.430	1.00	100.07	C
ATOM	5276	C	GLU	C	224	83.196	133.179	17.547	1.00	100.07	C
ATOM	5277	O	GLU	C	224	82.964	132.537	16.525	1.00	100.07	C
ATOM	5278	N	ALA	C	225	82.656	134.364	17.819	1.00	100.07	C
ATOM	5279	CA	ALA	C	225	81.744	135.081	16.940	1.00	100.07	C
ATOM	5280	CB	ALA	C	225	80.427	135.373	17.650	1.00	100.07	C
ATOM	5281	C	ALA	C	225	82.491	136.370	16.648	1.00	100.07	C
ATOM	5282	O	ALA	C	225	82.201	137.079	15.678	1.00	100.07	C
ATOM	5283	N	VAL	C	226	83.446	136.669	17.532	1.00	100.07	C
ATOM	5284	CA	VAL	C	226	84.315	137.823	17.364	1.00	100.07	C
ATOM	5285	CB	VAL	C	226	85.339	137.943	18.525	1.00	78.06	C
ATOM	5286	CG1	VAL	C	226	86.249	139.144	18.302	1.00	78.06	C
ATOM	5287	CG2	VAL	C	226	84.615	138.086	19.846	1.00	78.06	C
ATOM	5288	C	VAL	C	226	85.009	137.314	16.111	1.00	100.07	C
ATOM	5289	O	VAL	C	226	85.512	138.069	15.277	1.00	100.07	C
ATOM	5290	N	LEU	C	227	85.002	135.987	16.008	1.00	100.07	C
ATOM	5291	CA	LEU	C	227	85.553	135.281	14.875	1.00	100.07	C
ATOM	5292	CB	LEU	C	227	85.899	133.836	15.249	1.00	73.25	C
ATOM	5293	CG	LEU	C	227	86.534	133.549	16.611	1.00	73.25	C
ATOM	5294	CD1	LEU	C	227	86.971	132.090	16.656	1.00	73.25	C
ATOM	5295	CD2	LEU	C	227	87.718	134.470	16.844	1.00	73.25	C
ATOM	5296	C	LEU	C	227	84.398	135.273	13.885	1.00	100.07	C
ATOM	5297	O	LEU	C	227	84.449	135.929	12.848	1.00	100.07	C
ATOM	5298	N	ALA	C	228	83.340	134.551	14.245	1.00	73.62	C
ATOM	5299	CA	ALA	C	228	82.159	134.419	13.400	1.00	73.62	C
ATOM	5300	CB	ALA	C	228	81.008	133.853	14.213	1.00	5.07	C
ATOM	5301	C	ALA	C	228	81.718	135.697	12.672	1.00	73.62	C
ATOM	5302	O	ALA	C	228	80.865	136.452	13.153	1.00	73.62	C
ATOM	5303	N	MET	C	229	82.307	135.907	11.493	1.00	77.26	C
ATOM	5304	CA	MET	C	229	82.021	137.056	10.637	1.00	77.26	C
ATOM	5305	CB	MET	C	229	82.959	138.218	10.986	1.00	99.54	C
ATOM	5306	CG	MET	C	229	83.253	138.388	12.465	1.00	99.54	C
ATOM	5307	SD	MET	C	229	81.831	138.883	13.422	1.00	99.54	C
ATOM	5308	CE	MET	C	229	82.273	140.581	13.802	1.00	99.54	C
ATOM	5309	C	MET	C	229	82.247	136.652	9.165	1.00	77.26	C
ATOM	5310	O	MET	C	229	83.396	136.541	8.730	1.00	77.26	C
ATOM	5311	N	ARG	C	230	81.156	136.434	8.421	1.00	100.07	C
ATOM	5312	CA	ARG	C	230	81.176	136.049	6.993	1.00	100.07	C
ATOM	5313	CB	ARG	C	230	82.581	135.579	6.559	1.00	100.07	C
ATOM	5314	CG	ARG	C	230	82.762	135.220	5.064	1.00	100.07	C
ATOM	5315	CD	ARG	C	230	84.259	135.064	4.733	1.00	100.07	C
ATOM	5316	NE	ARG	C	230	84.556	134.258	3.545	1.00	100.07	C
ATOM	5317	CZ	ARG	C	230	84.164	134.547	2.305	1.00	100.07	C
ATOM	5318	NH1	ARG	C	230	83.441	135.634	2.071	1.00	100.07	C
ATOM	5319	NH2	ARG	C	230	84.513	133.757	1.291	1.00	100.07	C
ATOM	5320	C	ARG	C	230	80.153	134.947	6.692	1.00	100.07	C
ATOM	5321	O	ARG	C	230	80.460	133.758	6.792	1.00	100.07	C
ATOM	5322	N	PRO	C	231	78.924	135.330	6.304	1.00	40.50	C
ATOM	5323	CD	PRO	C	231	78.526	136.671	5.859	1.00	42.04	C
ATOM	5324	CA	PRO	C	231	77.866	134.361	5.994	1.00	40.50	C
ATOM	5325	CB	PRO	C	231	76.813	135.205	5.295	1.00	42.04	C
ATOM	5326	CG	PRO	C	231	77.617	136.335	4.719	1.00	42.04	C
ATOM	5327	C	PRO	C	231	78.360	133.232	5.124	1.00	40.50	C
ATOM	5328	O	PRO	C	231	78.371	132.080	5.546	1.00	40.50	C
ATOM	5329	N	GLU	C	232	78.762	133.573	3.905	1.00	92.40	C
ATOM	5330	CA	GLU	C	232	79.277	132.582	2.973	1.00	92.40	C
ATOM	5331	CB	GLU	C	232	80.204	133.251	1.952	1.00	100.07	C
ATOM	5332	CG	GLU	C	232	80.567	132.408	0.722	1.00	100.07	C
ATOM	5333	CD	GLU	C	232	81.568	131.294	1.003	1.00	100.07	C
ATOM	5334	OE1	GLU	C	232	81.189	130.297	1.650	1.00	100.07	C
ATOM	5335	OE2	GLU	C	232	82.738	131.418	0.570	1.00	100.07	C
ATOM	5336	C	GLU	C	232	80.059	131.608	3.831	1.00	92.40	C
ATOM	5337	O	GLU	C	232	79.703	130.437	3.942	1.00	92.40	C
ATOM	5338	N	GLU	C	233	81.104	132.119	4.472	1.00	52.83	C



ATOM	5339	CA	GLU	C	233	81.941	131.309	5.336	1.00	52.83	C
ATOM	5340	CB	GLU	C	233	82.932	132.177	6.098	1.00	82.05	C
ATOM	5341	CG	GLU	C	233	84.350	131.927	5.695	1.00	82.05	C
ATOM	5342	CD	GLU	C	233	84.679	130.463	5.754	1.00	82.05	C
ATOM	5343	OE1	GLU	C	233	84.626	129.893	6.864	1.00	82.05	C
ATOM	5344	OE2	GLU	C	233	84.977	129.883	4.688	1.00	82.05	C
ATOM	5345	C	GLU	C	233	81.076	130.575	6.322	1.00	52.83	C
ATOM	5346	O	GLU	C	233	81.131	129.354	6.405	1.00	52.83	C
ATOM	5347	N	ALA	C	234	80.269	131.332	7.059	1.00	72.93	C
ATOM	5348	CA	ALA	C	234	79.377	130.774	8.068	1.00	72.93	C
ATOM	5349	CB	ALA	C	234	78.211	131.711	8.305	1.00	11.79	C
ATOM	5350	C	ALA	C	234	78.858	129.396	7.693	1.00	72.93	C
ATOM	5351	O	ALA	C	234	79.104	128.424	8.407	1.00	72.93	C
ATOM	5352	N	MET	C	235	78.149	129.311	6.573	1.00	69.38	C
ATOM	5353	CA	MET	C	235	77.592	128.044	6.114	1.00	69.38	C
ATOM	5354	CB	MET	C	235	77.031	128.204	4.715	1.00	63.02	C
ATOM	5355	CG	MET	C	235	76.343	129.507	4.493	1.00	63.02	C
ATOM	5356	SD	MET	C	235	75.998	129.651	2.762	1.00	63.02	C
ATOM	5357	CE	MET	C	235	74.270	129.324	2.748	1.00	63.02	C
ATOM	5358	C	MET	C	235	78.626	126.924	6.095	1.00	69.38	C
ATOM	5359	O	MET	C	235	78.380	125.831	6.607	1.00	69.38	C
ATOM	5360	N	VAL	C	236	79.776	127.193	5.487	1.00	79.28	C
ATOM	5361	CA	VAL	C	236	80.842	126.201	5.403	1.00	79.28	C
ATOM	5362	CB	VAL	C	236	82.046	126.740	4.577	1.00	68.86	C
ATOM	5363	CG1	VAL	C	236	83.247	125.810	4.713	1.00	68.86	C
ATOM	5364	CG2	VAL	C	236	81.655	126.857	3.110	1.00	68.86	C
ATOM	5365	C	VAL	C	236	81.317	125.795	6.797	1.00	79.28	C
ATOM	5366	O	VAL	C	236	81.317	124.613	7.148	1.00	79.28	C
ATOM	5367	N	ARG	C	237	81.713	126.778	7.595	1.00	71.28	C
ATOM	5368	CA	ARG	C	237	82.190	126.500	8.938	1.00	71.28	C
ATOM	5369	CB	ARG	C	237	82.357	127.798	9.726	1.00100.07	C	
ATOM	5370	CG	ARG	C	237	82.899	127.579	11.124	1.00100.07	C	
ATOM	5371	CD	ARG	C	237	82.447	128.678	12.069	1.00100.07	C	
ATOM	5372	NE	ARG	C	237	82.653	128.298	13.467	1.00100.07	C	
ATOM	5373	CZ	ARG	C	237	82.152	128.959	14.506	1.00100.07	C	
ATOM	5374	NH1	ARG	C	237	81.408	130.044	14.315	1.00100.07	C	
ATOM	5375	NH2	ARG	C	237	82.394	128.530	15.738	1.00100.07	C	
ATOM	5376	C	ARG	C	237	81.211	125.592	9.665	1.00	71.28	C
ATOM	5377	O	ARG	C	237	81.595	124.851	10.567	1.00	71.28	C
ATOM	5378	N	LEU	C	238	79.946	125.653	9.263	1.00	96.52	C
ATOM	5379	CA	LEU	C	238	78.897	124.845	9.875	1.00	96.52	C
ATOM	5380	CB	LEU	C	238	77.562	125.572	9.765	1.00	29.95	C
ATOM	5381	CG	LEU	C	238	76.433	125.042	10.639	1.00	29.95	C
ATOM	5382	CD1	LEU	C	238	76.794	125.328	12.090	1.00	29.95	C
ATOM	5383	CD2	LEU	C	238	75.105	125.699	10.265	1.00	29.95	C
ATOM	5384	C	LEU	C	238	78.782	123.473	9.206	1.00	96.52	C
ATOM	5385	O	LEU	C	238	78.873	122.433	9.870	1.00	96.52	C
ATOM	5386	N	PHE	C	239	78.560	123.485	7.891	1.00	77.89	C
ATOM	5387	CA	PHE	C	239	78.444	122.259	7.106	1.00	77.89	C
ATOM	5388	CB	PHE	C	239	78.727	122.562	5.635	1.00	99.87	C
ATOM	5389	CG	PHE	C	239	77.738	121.957	4.684	1.00	99.87	C
ATOM	5390	CD1	PHE	C	239	77.187	122.723	3.660	1.00	99.87	C
ATOM	5391	CD2	PHE	C	239	77.390	120.616	4.777	1.00	99.87	C
ATOM	5392	CE1	PHE	C	239	76.306	122.164	2.740	1.00	99.87	C
ATOM	5393	CE2	PHE	C	239	76.514	120.045	3.861	1.00	99.87	C
ATOM	5394	CZ	PHE	C	239	75.970	120.822	2.840	1.00	99.87	C
ATOM	5395	C	PHE	C	239	79.509	121.339	7.671	1.00	77.89	C
ATOM	5396	O	PHE	C	239	79.265	120.168	7.939	1.00	77.89	C
ATOM	5397	N	THR	C	240	80.692	121.907	7.866	1.00	42.59	C
ATOM	5398	CA	THR	C	240	81.806	121.184	8.443	1.00	42.59	C
ATOM	5399	CB	THR	C	240	82.940	122.145	8.869	1.00	59.06	C
ATOM	5400	OG1	THR	C	240	83.463	122.801	7.709	1.00	59.06	C
ATOM	5401	CG2	THR	C	240	84.064	121.386	9.585	1.00	59.06	C
ATOM	5402	C	THR	C	240	81.299	120.475	9.685	1.00	42.59	C
ATOM	5403	O	THR	C	240	81.233	119.251	9.718	1.00	42.59	C
ATOM	5404	N	LEU	C	241	80.938	121.261	10.697	1.00100.07	C	
ATOM	5405	CA	LEU	C	241	80.440	120.742	11.967	1.00100.07	C	
ATOM	5406	CB	LEU	C	241	79.885	121.880	12.818	1.00	44.55	C
ATOM	5407	CG	LEU	C	241	80.862	123.035	13.055	1.00	44.55	C
ATOM	5408	CD1	LEU	C	241	80.105	124.199	13.661	1.00	44.55	C
ATOM	5409	CD2	LEU	C	241	82.011	122.600	13.950	1.00	44.55	C
ATOM	5410	C	LEU	C	241	79.376	119.678	11.762	1.00100.07	C	
ATOM	5411	O	LEU	C	241	79.093	118.892	12.667	1.00100.07	C	
ATOM	5412	N	LEU	C	242	78.771	119.671	10.579	1.00	72.59	C
ATOM	5413	CA	LEU	C	242	77.781	118.654	10.245	1.00	72.59	C
ATOM	5414	CB	LEU	C	242	76.519	119.298	9.674	1.00	85.83	C
ATOM	5415	CG	LEU	C	242	75.641	119.902	10.779	1.00	85.83	C
ATOM	5416	CD1	LEU	C	242	76.424	120.948	11.554	1.00	85.83	C
ATOM	5417	CD2	LEU	C	242	74.388	120.509	10.172	1.00	85.83	C
ATOM	5418	C	LEU	C	242	78.452	117.697	9.249	1.00	72.59	C
ATOM	5419	O	LEU	C	242	77.998	117.494	8.115	1.00	72.59	C
ATOM	5420	N	ARG	C	243	79.560	117.142	9.747	1.00	80.45	C
ATOM	5421	CA	ARG	C	243	80.477	116.195	9.107	1.00	80.45	C
ATOM	5422	CB	ARG	C	243	80.728	115.021	10.066	1.00100.07	C	



ATOM	5423	CG	ARG	C	243	81.593	115.348	11.287	1.00100.07	C
ATOM	5424	CD	ARG	C	243	81.309	114.390	12.458	1.00100.07	C
ATOM	5425	NE	ARG	C	243	81.285	112.979	12.063	1.00100.07	C
ATOM	5426	CZ	ARG	C	243	80.944	111.970	12.865	1.00100.07	C
ATOM	5427	NH1	ARG	C	243	80.593	112.193	14.124	1.00100.07	C
ATOM	5428	NH2	ARG	C	243	80.947	110.728	12.401	1.00100.07	C
ATOM	5429	C	ARG	C	243	80.221	115.630	7.713	1.00 80.45	C
ATOM	5430	O	ARG	C	243	81.092	115.718	6.848	1.00 80.45	C
ATOM	5431	N	PRO	C	244	79.040	115.026	7.479	1.00100.07	C
ATOM	5432	CD	PRO	C	244	77.926	114.899	8.442	1.00100.07	C
ATOM	5433	CA	PRO	C	244	78.662	114.428	6.189	1.00100.07	C
ATOM	5434	CB	PRO	C	244	77.137	114.414	6.258	1.00100.07	C
ATOM	5435	CG	PRO	C	244	76.910	114.036	7.682	1.00100.07	C
ATOM	5436	C	PRO	C	244	79.182	115.035	4.880	1.00100.07	C
ATOM	5437	O	PRO	C	244	79.316	116.258	4.736	1.00100.07	C
ATOM	5438	N	GLY	C	245	79.464	114.145	3.929	1.00100.07	C
ATOM	5439	CA	GLY	C	245	79.958	114.546	2.626	1.00100.07	C
ATOM	5440	C	GLY	C	245	81.149	115.481	2.650	1.00100.07	C
ATOM	5441	O	GLY	C	245	81.632	115.863	1.585	1.00100.07	C
ATOM	5442	N	ASP	C	246	81.633	115.831	3.844	1.00 94.17	C
ATOM	5443	CA	ASP	C	246	82.760	116.752	3.983	1.00 94.17	C
ATOM	5444	CB	ASP	C	246	84.082	115.985	4.017	1.00100.07	C
ATOM	5445	CG	ASP	C	246	84.160	115.025	5.186	1.00100.07	C
ATOM	5446	OD1	ASP	C	246	83.824	115.444	6.316	1.00100.07	C
ATOM	5447	OD2	ASP	C	246	84.562	113.858	4.979	1.00100.07	C
ATOM	5448	C	ASP	C	246	82.711	117.697	2.785	1.00 94.17	C
ATOM	5449	O	ASP	C	246	83.503	117.583	1.841	1.00 94.17	C
ATOM	5450	N	PRO	C	247	81.755	118.643	2.813	1.00100.07	C
ATOM	5451	CD	PRO	C	247	80.680	118.638	3.826	1.00100.07	C
ATOM	5452	CA	PRO	C	247	81.486	119.659	1.788	1.00100.07	C
ATOM	5453	CB	PRO	C	247	79.997	119.917	1.977	1.00100.07	C
ATOM	5454	CG	PRO	C	247	79.879	119.860	3.462	1.00100.07	C
ATOM	5455	C	PRO	C	247	82.270	120.982	1.720	1.00100.07	C
ATOM	5456	O	PRO	C	247	81.725	121.972	1.231	1.00100.07	C
ATOM	5457	N	PRO	C	248	83.533	121.032	2.197	1.00 72.68	C
ATOM	5458	CD	PRO	C	248	84.379	120.051	2.903	1.00100.07	C
ATOM	5459	CA	PRO	C	248	84.222	122.324	2.092	1.00 72.68	C
ATOM	5460	CB	PRO	C	248	85.658	121.971	2.459	1.00100.07	C
ATOM	5461	CG	PRO	C	248	85.459	120.925	3.516	1.00100.07	C
ATOM	5462	C	PRO	C	248	84.088	122.925	0.689	1.00 72.68	C
ATOM	5463	O	PRO	C	248	84.942	122.741	-0.186	1.00 72.68	C
ATOM	5464	N	LYS	C	249	82.985	123.642	0.506	1.00 69.22	C
ATOM	5465	CA	LYS	C	249	82.628	124.292	-0.743	1.00 69.22	C
ATOM	5466	CB	LYS	C	249	82.582	123.285	-1.896	1.00 87.67	C
ATOM	5467	CG	LYS	C	249	81.946	123.851	-3.167	1.00 87.67	C
ATOM	5468	CD	LYS	C	249	82.165	122.950	-4.375	1.00 87.67	C
ATOM	5469	CE	LYS	C	249	81.743	123.648	-5.664	1.00 87.67	C
ATOM	5470	NZ	LYS	C	249	82.217	122.925	-6.877	1.00 87.67	C
ATOM	5471	C	LYS	C	249	81.239	124.855	-0.537	1.00 69.22	C
ATOM	5472	O	LYS	C	249	80.285	124.096	-0.383	1.00 69.22	C
ATOM	5473	N	LYS	C	250	81.129	126.178	-0.516	1.00 32.54	C
ATOM	5474	CA	LYS	C	250	79.839	126.843	-0.340	1.00 32.54	C
ATOM	5475	CB	LYS	C	250	79.882	128.204	-1.043	1.00100.07	C
ATOM	5476	CG	LYS	C	250	80.749	128.202	-2.308	1.00100.07	C
ATOM	5477	CD	LYS	C	250	80.961	129.609	-2.869	1.00100.07	C
ATOM	5478	CE	LYS	C	250	81.923	129.608	-4.060	1.00100.07	C
ATOM	5479	NZ	LYS	C	250	82.124	130.976	-4.631	1.00100.07	C
ATOM	5480	C	LYS	C	250	78.712	125.982	-0.911	1.00 32.54	C
ATOM	5481	O	LYS	C	250	78.908	125.290	-1.910	1.00 32.54	C
ATOM	5482	N	ASP	C	251	77.539	126.007	-0.286	1.00100.07	C
ATOM	5483	CA	ASP	C	251	76.431	125.196	-0.786	1.00100.07	C
ATOM	5484	CB	ASP	C	251	76.517	123.777	-0.233	1.00100.07	C
ATOM	5485	CG	ASP	C	251	77.281	122.859	-1.149	1.00100.07	C
ATOM	5486	OD1	ASP	C	251	76.846	122.701	-2.311	1.00100.07	C
ATOM	5487	OD2	ASP	C	251	78.317	122.308	-0.718	1.00100.07	C
ATOM	5488	C	ASP	C	251	75.029	125.720	-0.560	1.00100.07	C
ATOM	5489	O	ASP	C	251	74.193	125.652	-1.464	1.00100.07	C
ATOM	5490	N	LYS	C	252	74.762	126.227	0.638	1.00100.07	C
ATOM	5491	CA	LYS	C	252	73.437	126.743	0.944	1.00100.07	C
ATOM	5492	CB	LYS	C	252	72.988	127.725	-0.136	1.00 81.51	C
ATOM	5493	CG	LYS	C	252	71.546	128.170	-0.011	1.00 81.51	C
ATOM	5494	CD	LYS	C	252	71.222	129.287	-0.994	1.00 81.51	C
ATOM	5495	CE	LYS	C	252	69.844	129.868	-0.732	1.00 81.51	C
ATOM	5496	NZ	LYS	C	252	69.602	131.058	-1.578	1.00 81.51	C
ATOM	5497	C	LYS	C	252	72.474	125.576	1.007	1.00100.07	C
ATOM	5498	O	LYS	C	252	71.506	125.594	1.768	1.00100.07	C
ATOM	5499	N	ALA	C	253	72.744	124.561	0.193	1.00100.07	C
ATOM	5500	CA	ALA	C	253	71.922	123.362	0.166	1.00100.07	C
ATOM	5501	CB	ALA	C	253	72.496	122.352	-0.808	1.00100.07	C
ATOM	5502	C	ALA	C	253	71.959	122.813	1.580	1.00100.07	C
ATOM	5503	O	ALA	C	253	72.704	123.324	2.424	1.00100.07	C
ATOM	5504	N	LEU	C	254	71.186	121.765	1.840	1.00 81.03	C
ATOM	5505	CA	LEU	C	254	71.133	121.211	3.183	1.00 81.03	C
ATOM	5506	CB	LEU	C	254	72.543	121.064	3.761	1.00 10.72	C



ATOM	5507	CG	LEU	C	254	72.617	120.785	5.262	1.00	10.72	C
ATOM	5508	CD1	LEU	C	254	71.649	119.664	5.693	1.00	10.72	C
ATOM	5509	CD2	LEU	C	254	74.029	120.414	5.586	1.00	10.72	C
ATOM	5510	C	LEU	C	254	70.335	122.252	3.959	1.00	81.03	C
ATOM	5511	O	LEU	C	254	69.256	121.962	4.482	1.00	81.03	C
ATOM	5512	N	ALA	C	255	70.875	123.469	4.023	1.00	39.51	C
ATOM	5513	CA	ALA	C	255	70.185	124.579	4.670	1.00	39.51	C
ATOM	5514	CB	ALA	C	255	71.140	125.786	4.834	1.00	16.33	C
ATOM	5515	C	ALA	C	255	69.057	124.878	3.664	1.00	39.51	C
ATOM	5516	O	ALA	C	255	68.135	125.649	3.919	1.00	39.51	C
ATOM	5517	N	TYR	C	256	69.154	124.224	2.510	1.00	72.15	C
ATOM	5518	CA	TYR	C	256	68.158	124.340	1.455	1.00	72.15	C
ATOM	5519	CB	TYR	C	256	68.586	123.493	0.247	1.00	100.00.07	C
ATOM	5520	CG	TYR	C	256	68.440	124.166	-1.112	1.00	100.00.07	C
ATOM	5521	CD1	TYR	C	256	69.177	125.309	-1.437	1.00	100.00.07	C
ATOM	5522	CE1	TYR	C	256	69.056	125.920	-2.704	1.00	100.00.07	C
ATOM	5523	CD2	TYR	C	256	67.575	123.647	-2.084	1.00	100.00.07	C
ATOM	5524	CE2	TYR	C	256	67.447	124.250	-3.352	1.00	100.00.07	C
ATOM	5525	CZ	TYR	C	256	68.188	125.385	-3.654	1.00	100.00.07	C
ATOM	5526	OH	TYR	C	256	68.051	125.988	-4.889	1.00	100.00.07	C
ATOM	5527	C	TYR	C	256	66.905	123.752	2.106	1.00	72.15	C
ATOM	5528	O	TYR	C	256	65.813	123.773	1.544	1.00	72.15	C
ATOM	5529	N	LEU	C	257	67.103	123.209	3.303	1.00	82.61	C
ATOM	5530	CA	LEU	C	257	66.042	122.616	4.107	1.00	82.61	C
ATOM	5531	CB	LEU	C	257	66.359	121.153	4.437	1.00	100.00.07	C
ATOM	5532	CG	LEU	C	257	66.487	120.060	3.373	1.00	100.00.07	C
ATOM	5533	CD1	LEU	C	257	66.967	118.776	4.050	1.00	100.00.07	C
ATOM	5534	CD2	LEU	C	257	65.161	119.825	2.685	1.00	100.00.07	C
ATOM	5535	C	LEU	C	257	66.001	123.419	5.407	1.00	82.61	C
ATOM	5536	O	LEU	C	257	65.991	124.650	5.369	1.00	82.61	C
ATOM	5537	N	PHE	C	258	65.991	122.708	6.541	1.00	51.05	C
ATOM	5538	CA	PHE	C	258	65.976	123.303	7.877	1.00	51.05	C
ATOM	5539	CB	PHE	C	258	67.381	123.254	8.482	1.00	99.09	C
ATOM	5540	CG	PHE	C	258	68.011	121.890	8.464	1.00	99.09	C
ATOM	5541	CD1	PHE	C	258	68.064	121.142	7.290	1.00	99.09	C
ATOM	5542	CD2	PHE	C	258	68.599	121.372	9.614	1.00	99.09	C
ATOM	5543	CE1	PHE	C	258	68.691	119.896	7.258	1.00	99.09	C
ATOM	5544	CE2	PHE	C	258	69.231	120.126	9.597	1.00	99.09	C
ATOM	5545	CZ	PHE	C	258	69.280	119.387	8.414	1.00	99.09	C
ATOM	5546	C	PHE	C	258	65.498	124.757	7.841	1.00		



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ATOM	5591	CG	LYS	C	265	60.204	123.796	9.035	1.00	61.50	C
ATOM	5592	CD	LYS	C	265	60.899	123.147	10.239	1.00	61.50	C
ATOM	5593	CE	LYS	C	265	61.087	124.124	11.387	1.00	61.50	C
ATOM	5594	NZ	LYS	C	265	61.852	123.539	12.524	1.00	61.50	C
ATOM	5595	C	LYS	C	265	57.807	122.536	7.242	1.00	72.31	C
ATOM	5596	O	LYS	C	265	57.822	123.041	6.120	1.00	72.31	C
ATOM	5597	N	ARG	C	266	56.732	122.573	8.025	1.00100.07	C	C
ATOM	5598	CA	ARG	C	266	55.543	123.258	7.532	1.00100.07	C	C
ATOM	5599	CB	ARG	C	266	54.941	122.482	6.353	1.00100.07	C	C
ATOM	5600	CG	ARG	C	266	53.930	123.275	5.517	1.00100.07	C	C
ATOM	5601	CD	ARG	C	266	53.633	122.575	4.186	1.00100.07	C	C
ATOM	5602	NE	ARG	C	266	52.774	123.371	3.310	1.00100.07	C	C
ATOM	5603	CZ	ARG	C	266	52.493	123.057	2.049	1.00100.07	C	C
ATOM	5604	NH1	ARG	C	266	53.005	121.959	1.509	1.00100.07	C	C
ATOM	5605	NH2	ARG	C	266	51.707	123.846	1.325	1.00100.07	C	C
ATOM	5606	C	ARG	C	266	54.447	123.558	8.540	1.00100.07	C	C
ATOM	5607	O	ARG	C	266	53.804	124.607	8.454	1.00100.07	C	C
ATOM	5608	N	TYR	C	267	54.234	122.656	9.496	1.00	84.65	C
ATOM	5609	CA	TYR	C	267	53.173	122.841	10.490	1.00	84.65	C
ATOM	5610	CB	TYR	C	267	53.466	124.029	11.401	1.00	86.36	C
ATOM	5611	CG	TYR	C	267	54.922	124.194	11.775	1.00	86.36	C
ATOM	5612	CD1	TYR	C	267	55.839	124.731	10.871	1.00	86.36	C
ATOM	5613	CE1	TYR	C	267	57.162	124.942	11.228	1.00	86.36	C
ATOM	5614	CD2	TYR	C	267	55.374	123.868	13.048	1.00	86.36	C
ATOM	5615	CE2	TYR	C	267	56.696	124.078	13.416	1.00	86.36	C
ATOM	5616	CZ	TYR	C	267	57.583	124.616	12.504	1.00	86.36	C
ATOM	5617	OH	TYR	C	267	58.890	124.827	12.867	1.00	86.36	C
ATOM	5618	C	TYR	C	267	51.891	123.103	9.707	1.00	84.65	C
ATOM	5619	O	TYR	C	267	50.884	123.568	10.255	1.00	84.65	C
ATOM	5620	N	ALA	C	268	51.984	122.803	8.409	1.00100.07	C	C
ATOM	5621	CA	ALA	C	268	50.920	122.939	7.411	1.00100.07	C	C
ATOM	5622	CB	ALA	C	268	50.044	121.675	7.419	1.00100.07	C	C
ATOM	5623	C	ALA	C	268	50.037	124.189	7.495	1.00100.07	C	C
ATOM	5624	O	ALA	C	268	48.819	124.080	7.718	1.00100.07	C	C
ATOM	5625	N	ALA	C	269	50.646	125.361	7.283	1.00100.07	C	C
ATOM	5626	CA	ALA	C	269	49.934	126.646	7.335	1.00100.07	C	C
ATOM	5627	CB	ALA	C	269	49.281	126.949	5.977	1.00100.07	C	C
ATOM	5628	C	ALA	C	269	48.875	126.637	8.440	1.00100.07	C	C
ATOM	5629	O	ALA	C	269	47.958	127.469	8.452	1.00100.07	C	C
ATOM	5630	N	GLY	C	270	49.030	125.682	9.360	1.00	89.18	C
ATOM	5631	CA	GLY	C	270	48.118	125.515	10.469	1.00	89.18	C
ATOM	5632	C	GLY	C	270	48.834	125.823	11.762	1.00	89.18	C
ATOM	5633	O	GLY	C	270	50.049	125.625	11.875	1.00	89.18	C
ATOM	5634	N	ALA	C	271	48.058	126.312	12.726	1.00	96.46	C
ATOM	5635	CA	ALA	C	271	48.535	126.702	14.051	1.00	96.46	C
ATOM	5636	CB	ALA	C	271	47.351	126.775	15.015	1.00	65.34	C
ATOM	5637	C	ALA	C	271	49.624	125.792	14.615	1.00	96.46	C
ATOM	5638	O	ALA	C	271	49.810	124.668	14.141	1.00	96.46	C
ATOM	5639	N	ALA	C	272	50.328	126.287	15.635	1.00	66.27	C
ATOM	5640	CA	ALA	C	272	51.422	125.546	16.265	1.00	66.27	C
ATOM	5641	CB	ALA	C	272	50.971	124.154	16.673	1.00100.07	C	C
ATOM	5642	C	ALA	C	272	52.488	125.464	15.199	1.00	66.27	C
ATOM	5643	O	ALA	C	272	52.524	124.527	14.402	1.00	66.27	C
ATOM	5644	N	GLY	C	273	53.360	126.458	15.201	1.00	72.04	C
ATOM	5645	CA	GLY	C	273	54.401	126.555	14.199	1.00	72.04	C
ATOM	5646	C	GLY	C	273	54.035	127.902	13.644	1.00	72.04	C
ATOM	5647	O	GLY	C	273	54.708	128.483	12.797	1.00	72.04	C
ATOM	5648	N	ALA	C	274	52.916	128.381	14.178	1.00	17.99	C
ATOM	5649	CA	ALA	C	274	52.341	129.672	13.865	1.00	17.99	C
ATOM	5650	CB	ALA	C	274	51.802	129.688	12.429	1.00	26.15	C
ATOM	5651	C	ALA	C	274	51.211	129.906	14.874	1.00	17.99	C
ATOM	5652	O	ALA	C	274	51.170	129.285	15.951	1.00	17.99	C
ATOM	5653	N	ALA	C	275	50.305	130.808	14.509	1.00100.07	C	C
ATOM	5654	CA	ALA	C	275	49.160	131.172	15.331	1.00100.07	C	C
ATOM	5655	CB	ALA	C	275	47.865	130.813	14.600	1.00	36.93	C
ATOM	5656	C	ALA	C	275	49.172	130.551	16.728	1.00100.07	C	C
ATOM	5657	O	ALA	C	275	49.986	130.940	17.570	1.00100.07	C	C
ATOM	5658	N	ALA	C	276	48.281	129.580	16.950	1.00	99.84	C
ATOM	5659	CA	ALA	C	276	48.108	128.890	18.236	1.00	99.84	C
ATOM	5660	CB	ALA	C	276	47.739	127.437	18.016	1.00	5.07	C
ATOM	5661	C	ALA	C	276	49.263	128.956	19.207	1.00	99.84	C
ATOM	5662	O	ALA	C	276	49.059	128.866	20.417	1.00	99.84	C
ATOM	5663	N	ALA	C	277	50.477	129.090	18.693	1.00	75.88	C
ATOM	5664	CA	ALA	C	277	51.622	129.160	19.574	1.00	75.88	C
ATOM	5665	CB	ALA	C	277	52.113	127.747	19.908	1.00100.07	C	C
ATOM	5666	C	ALA	C	277	52.756	129.983	18.998	1.00	75.88	C
ATOM	5667	O	ALA	C	277	53.021	131.091	19.463	1.00	75.88	C
ATOM	5668	N	ALA	C	278	53.428	129.426	17.994	1.00	47.49	C
ATOM	5669	CA	ALA	C	278	54.558	130.089	17.371	1.00	47.49	C
ATOM	5670	CB	ALA	C	278	54.720	129.613	15.966	1.00	23.99	C
ATOM	5671	C	ALA	C	278	54.351	131.588	17.394	1.00	47.49	C
ATOM	5672	O	ALA	C	278	54.982	132.291	18.189	1.00	47.49	C
ATOM	5673	N	GLU	C	279	53.454	132.069	16.534	1.00100.07	C	C
ATOM	5674	CA	GLU	C	279	53.156	133.493	16.458	1.00100.07	C	C



ATOM	5675	CB	GLU	C	279	52.197	133.787	15.298	1.00100.07	C
ATOM	5676	CG	GLU	C	279	52.880	133.871	13.939	1.00100.07	C
ATOM	5677	CD	GLU	C	279	51.981	134.458	12.859	1.00100.07	C
ATOM	5678	OE1	GLU	C	279	51.425	135.562	13.075	1.00100.07	C
ATOM	5679	OE2	GLU	C	279	51.838	133.818	11.791	1.00100.07	C
ATOM	5680	C	GLU	C	279	52.567	134.021	17.762	1.00100.07	C
ATOM	5681	O	GLU	C	279	52.471	135.233	17.960	1.00100.07	C
ATOM	5682	N	LYS	C	280	52.175	133.120	18.657	1.00 81.12	C
ATOM	5683	CA	LYS	C	280	51.618	133.552	19.928	1.00 81.12	C
ATOM	5684	CB	LYS	C	280	50.574	132.564	20.431	1.00 49.89	C
ATOM	5685	CG	LYS	C	280	49.621	133.205	21.430	1.00 49.89	C
ATOM	5686	CD	LYS	C	280	49.261	134.642	21.000	1.00 49.89	C
ATOM	5687	CE	LYS	C	280	48.687	134.698	19.577	1.00 49.89	C
ATOM	5688	NZ	LYS	C	280	48.550	136.094	19.073	1.00 49.89	C
ATOM	5689	C	LYS	C	280	52.696	133.742	20.983	1.00 81.12	C
ATOM	5690	O	LYS	C	280	52.419	133.738	22.181	1.00 81.12	C
ATOM	5691	N	LEU	C	281	53.925	133.908	20.508	1.00 61.88	C
ATOM	5692	CA	LEU	C	281	55.108	134.127	21.334	1.00 61.88	C
ATOM	5693	CB	LEU	C	281	55.520	132.839	22.056	1.00 76.71	C
ATOM	5694	CG	LEU	C	281	54.539	132.276	23.087	1.00 76.71	C
ATOM	5695	CD1	LEU	C	281	55.055	130.969	23.676	1.00 76.71	C
ATOM	5696	CD2	LEU	C	281	54.333	133.317	24.168	1.00 76.71	C
ATOM	5697	C	LEU	C	281	56.170	134.524	20.321	1.00 61.88	C
ATOM	5698	O	LEU	C	281	57.237	133.905	20.232	1.00 61.88	C
ATOM	5699	N	GLY	C	282	55.844	135.548	19.534	1.00 89.14	C
ATOM	5700	CA	GLY	C	282	56.754	136.028	18.505	1.00 89.14	C
ATOM	5701	C	GLY	C	282	56.138	137.047	17.556	1.00 89.14	C
ATOM	5702	O	GLY	C	282	56.759	137.462	16.570	1.00 89.14	C
ATOM	5703	N	VAL	C	283	54.903	137.439	17.851	1.00 88.20	C
ATOM	5704	CA	VAL	C	283	54.199	138.428	17.052	1.00 88.20	C
ATOM	5705	CB	VAL	C	283	55.091	139.670	16.821	1.00100.07	C
ATOM	5706	CG1	VAL	C	283	54.280	140.781	16.169	1.00100.07	C
ATOM	5707	CG2	VAL	C	283	55.691	140.135	18.145	1.00100.07	C
ATOM	5708	C	VAL	C	283	53.714	137.913	15.699	1.00 88.20	C
ATOM	5709	O	VAL	C	283	52.506	137.821	15.460	1.00 88.20	C
ATOM	5710	N	GLY	C	284	54.648	137.582	14.812	1.00 54.85	C
ATOM	5711	CA	GLY	C	284	54.254	137.109	13.497	1.00 54.85	C
ATOM	5712	C	GLY	C	284	55.070	135.958	12.939	1.00 54.85	C
ATOM	5713	O	GLY	C	284	55.853	135.323	13.657	1.00 54.85	C
ATOM	5714	N	LEU	C	285	54.859	135.682	11.651	1.00 56.96	C
ATOM	5715	CA	LEU	C	285	55.566	134.615	10.938	1.00 56.96	C
ATOM	5716	CB	LEU	C	285	55.563	133.330	11.769	1.00 65.06	C
ATOM	5717	CG	LEU	C	285	56.924	132.701	12.073	1.00 65.06	C
ATOM	5718	CD1	LEU	C	285	56.706	131.522	12.993	1.00 65.06	C
ATOM	5719	CD2	LEU	C	285	57.614	132.256	10.793	1.00 65.06	C
ATOM	5720	C	LEU	C	285	54.972	134.331	9.554	1.00 56.96	C
ATOM	5721	O	LEU	C	285	54.267	135.165	8.979	1.00 56.96	C
ATOM	5722	N	SER	C	286	55.274	133.141	9.034	1.00100.07	C
ATOM	5723	CA	SER	C	286	54.802	132.695	7.723	1.00100.07	C
ATOM	5724	CB	SER	C	286	55.404	133.573	6.614	1.00 92.37	C
ATOM	5725	OG	SER	C	286	55.095	134.946	6.798	1.00 92.37	C
ATOM	5726	C	SER	C	286	55.214	131.237	7.485	1.00100.07	C
ATOM	5727	O	SER	C	286	56.104	130.971	6.680	1.00100.07	C
ATOM	5728	N	GLY	C	287	54.575	130.295	8.172	1.00 81.48	C
ATOM	5729	CA	GLY	C	287	54.944	128.903	7.985	1.00 81.48	C
ATOM	5730	C	GLY	C	287	56.365	128.649	8.468	1.00 81.48	C
ATOM	5731	O	GLY	C	287	56.907	129.455	9.227	1.00 81.48	C
ATOM	5732	N	ALA	C	288	56.969	127.546	8.018	1.00 69.71	C
ATOM	5733	CA	ALA	C	288	58.337	127.125	8.393	1.00 69.71	C
ATOM	5734	CB	ALA	C	288	58.997	126.395	7.223	1.00 54.40	C
ATOM	5735	C	ALA	C	288	59.338	128.138	8.952	1.00 69.71	C
ATOM	5736	O	ALA	C	288	59.283	129.335	8.681	1.00 69.71	C
ATOM	5737	N	THR	C	289	60.280	127.602	9.717	1.00100.07	C
ATOM	5738	CA	THR	C	289	61.337	128.373	10.358	1.00100.07	C
ATOM	5739	CB	THR	C	289	62.183	127.468	11.290	1.00 67.47	C
ATOM	5740	OG1	THR	C	289	61.347	126.892	12.301	1.00 67.47	C
ATOM	5741	CG2	THR	C	289	63.286	128.261	11.947	1.00 67.47	C
ATOM	5742	C	THR	C	289	62.284	128.994	9.337	1.00100.07	C
ATOM	5743	O	THR	C	289	62.572	128.384	8.307	1.00100.07	C
ATOM	5744	N	LEU	C	290	62.756	130.208	9.631	1.00 25.23	C
ATOM	5745	CA	LEU	C	290	63.710	130.912	8.770	1.00 25.23	C
ATOM	5746	CB	LEU	C	290	65.067	130.239	8.929	1.00100.07	C
ATOM	5747	CG	LEU	C	290	66.237	130.717	8.087	1.00100.07	C
ATOM	5748	CD1	LEU	C	290	66.668	132.100	8.534	1.00100.07	C
ATOM	5749	CD2	LEU	C	290	67.374	129.727	8.248	1.00100.07	C
ATOM	5750	C	LEU	C	290	63.332	130.942	7.287	1.00 25.23	C
ATOM	5751	O	LEU	C	290	63.176	129.891	6.671	1.00 25.23	C
ATOM	5752	N	VAL	C	291	63.195	132.131	6.703	1.00100.07	C
ATOM	5753	CA	VAL	C	291	62.858	132.202	5.282	1.00100.07	C
ATOM	5754	CB	VAL	C	291	62.652	133.652	4.797	1.00 71.19	C
ATOM	5755	CG1	VAL	C	291	62.031	133.642	3.403	1.00 71.19	C
ATOM	5756	CG2	VAL	C	291	61.752	134.407	5.767	1.00 71.19	C
ATOM	5757	C	VAL	C	291	64.031	131.577	4.532	1.00100.07	C
ATOM	5758	O	VAL	C	291	64.780	130.797	5.119	1.00100.07	C



ATOM	5759	N	ALA	C	292	64.215	131.905	3.254	1.00100.07	C
ATOM	5760	CA	ALA	C	292	65.321	131.299	2.513	1.00100.07	C
ATOM	5761	CB	ALA	C	292	65.063	129.801	2.355	1.00100.07	C
ATOM	5762	C	ALA	C	292	65.684	131.890	1.154	1.00100.07	C
ATOM	5763	O	ALA	C	292	65.429	133.061	0.867	1.00100.07	C
ATOM	5764	N	ALA	C	293	66.299	131.038	0.335	1.00100.07	C
ATOM	5765	CA	ALA	C	293	66.748	131.371	-1.008	1.00100.07	C
ATOM	5766	CB	ALA	C	293	66.909	130.084	-1.819	1.00 63.42	C
ATOM	5767	C	ALA	C	293	65.845	132.360	-1.755	1.00100.07	C
ATOM	5768	O	ALA	C	293	64.958	131.970	-2.524	1.00100.07	C
ATOM	5769	N	GLU	C	294	66.087	133.647	-1.523	1.00 99.91	C
ATOM	5770	CA	GLU	C	294	65.330	134.712	-2.168	1.00 99.91	C
ATOM	5771	CB	GLU	C	294	64.719	135.635	-1.119	1.00100.07	C
ATOM	5772	CG	GLU	C	294	63.552	135.032	-0.378	1.00100.07	C
ATOM	5773	CD	GLU	C	294	62.824	136.059	0.451	1.00100.07	C
ATOM	5774	OE1	GLU	C	294	61.710	135.751	0.933	1.00100.07	C
ATOM	5775	OE2	GLU	C	294	63.372	137.173	0.617	1.00100.07	C
ATOM	5776	C	GLU	C	294	66.284	135.504	-3.037	1.00 99.91	C
ATOM	5777	O	GLU	C	294	66.307	135.363	-4.261	1.00 99.91	C
ATOM	5778	N	ASP	C	295	67.065	136.348	-2.380	1.00 95.05	C
ATOM	5779	CA	ASP	C	295	68.054	137.153	-3.060	1.00 95.05	C
ATOM	5780	CB	ASP	C	295	68.041	138.580	-2.516	1.00100.07	C
ATOM	5781	CG	ASP	C	295	66.651	139.158	-2.449	1.00100.07	C
ATOM	5782	OD1	ASP	C	295	65.914	139.028	-3.448	1.00100.07	C
ATOM	5783	OD2	ASP	C	295	66.301	139.746	-1.402	1.00100.07	C
ATOM	5784	C	ASP	C	295	69.393	136.492	-2.758	1.00 95.05	C
ATOM	5785	O	ASP	C	295	70.361	136.646	-3.506	1.00 95.05	C
ATOM	5786	N	GLY	C	296	69.431	135.749	-1.653	1.00100.07	C
ATOM	5787	CA	GLY	C	296	70.645	135.064	-1.244	1.00100.07	C
ATOM	5788	C	GLY	C	296	70.417	134.198	-0.018	1.00100.07	C
ATOM	5789	O	GLY	C	296	69.728	133.180	-0.092	1.00100.07	C
ATOM	5790	N	ALA	C	297	70.989	134.597	1.114	1.00100.03	C
ATOM	5791	CA	ALA	C	297	70.835	133.835	2.348	1.00100.03	C
ATOM	5792	CB	ALA	C	297	71.762	134.378	3.425	1.00 32.08	C
ATOM	5793	C	ALA	C	297	69.397	133.907	2.822	1.00100.03	C
ATOM	5794	O	ALA	C	297	68.624	134.743	2.355	1.00100.03	C
ATOM	5795	N	ALA	C	298	69.040	133.030	3.750	1.00 52.31	C
ATOM	5796	CA	ALA	C	298	67.687	133.016	4.283	1.00 52.31	C
ATOM	5797	CB	ALA	C	298	67.437	131.684	4.964	1.00100.07	C
ATOM	5798	C	ALA	C	298	67.547	134.166	5.287	1.00 52.31	C
ATOM	5799	O	ALA	C	298	68.532	134.849	5.577	1.00 52.31	C
ATOM	5800	N	LYS	C	299	66.337	134.409	5.795	1.00 94.40	C
ATOM	5801	CA								



ATOM	5843	CB	LEU	C	304	67.266	135.588	17.751	1.00	60.59	C
ATOM	5844	CG	LEU	C	304	66.753	136.531	16.671	1.00	60.59	C
ATOM	5845	CD1	LEU	C	304	67.520	137.823	16.693	1.00	60.59	C
ATOM	5846	CD2	LEU	C	304	66.864	135.837	15.338	1.00	60.59	C
ATOM	5847	C	LEU	C	304	65.011	135.032	18.633	1.00	61.39	C
ATOM	5848	O	LEU	C	304	64.885	135.278	19.825	1.00	61.39	C
ATOM	5849	N	PRO	C	305	64.027	135.289	17.747	1.00	59.52	C
ATOM	5850	CD	PRO	C	305	63.954	135.319	16.274	1.00	50.13	C
ATOM	5851	CA	PRO	C	305	62.800	135.836	18.333	1.00	59.52	C
ATOM	5852	CB	PRO	C	305	61.814	135.839	17.147	1.00	50.13	C
ATOM	5853	CG	PRO	C	305	62.515	135.048	16.032	1.00	50.13	C
ATOM	5854	C	PRO	C	305	62.356	134.970	19.525	1.00	59.52	C
ATOM	5855	O	PRO	C	305	61.641	135.421	20.426	1.00	59.52	C
ATOM	5856	N	THR	C	306	62.809	133.722	19.509	1.00	78.49	C
ATOM	5857	CA	THR	C	306	62.549	132.777	20.580	1.00	78.49	C
ATOM	5858	CB	THR	C	306	62.677	131.321	20.098	1.00	57.87	C
ATOM	5859	OG1	THR	C	306	61.564	131.001	19.263	1.00	57.87	C
ATOM	5860	CG2	THR	C	306	62.705	130.361	21.268	1.00	57.87	C
ATOM	5861	C	THR	C	306	63.685	133.060	21.539	1.00	78.49	C
ATOM	5862	O	THR	C	306	63.474	133.359	22.715	1.00	78.49	C
ATOM	5863	N	LEU	C	307	64.899	132.965	21.002	1.00	55.35	C
ATOM	5864	CA	LEU	C	307	66.120	133.218	21.753	1.00	55.35	C
ATOM	5865	CB	LEU	C	307	67.262	133.478	20.762	1.00	34.85	C
ATOM	5866	CG	LEU	C	307	68.700	133.765	21.181	1.00	34.85	C
ATOM	5867	CD1	LEU	C	307	69.181	132.720	22.176	1.00	34.85	C
ATOM	5868	CD2	LEU	C	307	69.568	133.797	19.932	1.00	34.85	C
ATOM	5869	C	LEU	C	307	65.831	134.438	22.615	1.00	55.35	C
ATOM	5870	O	LEU	C	307	66.080	134.435	23.820	1.00	55.35	C
ATOM	5871	N	ARG	C	308	65.280	135.471	21.983	1.00	44.73	C
ATOM	5872	CA	ARG	C	308	64.905	136.692	22.672	1.00	44.73	C
ATOM	5873	CB	ARG	C	308	64.143	137.610	21.726	1.00	95.84	C
ATOM	5874	CG	ARG	C	308	63.347	138.700	22.417	1.00	95.84	C
ATOM	5875	CD	ARG	C	308	62.874	139.715	21.399	1.00	95.84	C
ATOM	5876	NE	ARG	C	308	62.047	139.105	20.361	1.00	95.84	C
ATOM	5877	CZ	ARG	C	308	62.205	139.314	19.057	1.00	95.84	C
ATOM	5878	NH1	ARG	C	308	63.164	140.116	18.613	1.00	95.84	C
ATOM	5879	NH2	ARG	C	308	61.392	138.731	18.193	1.00	95.84	C
ATOM	5880	C	ARG	C	308	64.001	136.283	23.818	1.00	44.73	C
ATOM	5881	O	ARG	C	308	64.323	136.512	24.982	1.00	44.73	C
ATOM	5882	N	TYR	C	309	62.879	135.657	23.468	1.00	45.25	C
ATOM	5883	CA	TYR	C	309	61.897	135.187	24.440	1.00	45.25	C
ATOM	5884	CB	TYR	C	309	60.753	134.461	23.723	1.00	43.04	C
ATOM	5885	CG	TYR	C	309	59.551	134.084	24.588	1.00	43.04	C
ATOM	5886	CD1	TYR	C	309	58.537	133.274	24.076	1.00	43.04	C
ATOM	5887	CE1	TYR	C	309	57.457	132.897	24.845	1.00	43.04	C
ATOM	5888	CD2	TYR	C	309	59.436	134.514	25.902	1.00	43.04	C
ATOM	5889	CE2	TYR	C	309	58.350	134.146	26.683	1.00	43.04	C
ATOM	5890	CZ	TYR	C	309	57.363	133.333	26.150	1.00	43.04	C
ATOM	5891	OH	TYR	C	309	56.285	132.945	26.925	1.00	43.04	C
ATOM	5892	C	TYR	C	309	62.503	134.268	25.497	1.00	45.25	C
ATOM	5893	O	TYR	C	309	61.970	134.170	26.595	1.00	45.25	C
ATOM	5894	N	LEU	C	310	63.602	133.587	25.185	1.00	57.81	C
ATOM	5895	CA	LEU	C	310	64.215	132.719	26.189	1.00	57.81	C
ATOM	5896	CB	LEU	C	310	65.342	131.868	25.590	1.00	33.86	C
ATOM	5897	CG	LEU	C	310	66.035	131.019	26.667	1.00	33.86	C
ATOM	5898	CD1	LEU	C	310	65.131	129.873	27.070	1.00	33.86	C
ATOM	5899	CD2	LEU	C	310	67.351	130.488	26.169	1.00	33.86	C
ATOM	5900	C	LEU	C	310	64.775	133.580	27.332	1.00	57.81	C
ATOM	5901	O	LEU	C	310	64.361	133.451	28.487	1.00	57.81	C
ATOM	5902	N	PHE	C	311	65.718	134.458	27.005	1.00	46.11	C
ATOM	5903	CA	PHE	C	311	66.313	135.338	27.997	1.00	46.11	C
ATOM	5904	CB	PHE	C	311	67.144	136.421	27.297	1.00	36.49	C
ATOM	5905	CG	PHE	C	311	68.366	135.893	26.587	1.00	36.49	C
ATOM	5906	CD1	PHE	C	311	69.079	136.701	25.709	1.00	36.49	C
ATOM	5907	CD2	PHE	C	311	68.828	134.596	26.815	1.00	36.49	C
ATOM	5908	CE1	PHE	C	311	70.235	136.226	25.060	1.00	36.49	C
ATOM	5909	CE2	PHE	C	311	69.989	134.110	26.166	1.00	36.49	C
ATOM	5910	CZ	PHE	C	311	70.689	134.932	25.295	1.00	36.49	C
ATOM	5911	C	PHE	C	311	65.194	135.974	28.825	1.00	46.11	C
ATOM	5912	O	PHE	C	311	65.212	135.929	30.056	1.00	46.11	C
ATOM	5913	N	ALA	C	312	64.211	136.548	28.137	1.00	65.23	C
ATOM	5914	CA	ALA	C	312	63.078	137.196	28.794	1.00	65.23	C
ATOM	5915	CB	ALA	C	312	62.204	137.902	27.761	1.00	88.15	C
ATOM	5916	C	ALA	C	312	62.237	136.197	29.586	1.00	65.23	C
ATOM	5917	O	ALA	C	312	61.073	136.466	29.900	1.00	65.23	C
ATOM	5918	N	LEU	C	313	62.832	135.045	29.886	1.00	36.75	C
ATOM	5919	CA	LEU	C	313	62.190	133.979	30.654	1.00	36.75	C
ATOM	5920	CB	LEU	C	313	61.676	132.868	29.718	1.00	36.31	C
ATOM	5921	CG	LEU	C	313	61.429	131.406	30.147	1.00	36.31	C
ATOM	5922	CD1	LEU	C	313	60.547	131.314	31.371	1.00	36.31	C
ATOM	5923	CD2	LEU	C	313	60.789	130.651	28.990	1.00	36.31	C
ATOM	5924	C	LEU	C	313	63.299	133.469	31.549	1.00	36.75	C
ATOM	5925	O	LEU	C	313	63.201	132.420	32.173	1.00	36.75	C
ATOM	5926	N	THR	C	314	64.369	134.244	31.601	1.00	37.84	C



ATOM	5927	CA	THR	C	314	65.520	133.903	32.413	1.00	37.84	C
ATOM	5928	CB	THR	C	314	66.764	133.782	31.528	1.00	42.48	C
ATOM	5929	OG1	THR	C	314	66.361	133.433	30.197	1.00	42.48	C
ATOM	5930	CG2	THR	C	314	67.693	132.702	32.057	1.00	42.48	C
ATOM	5931	C	THR	C	314	65.699	135.037	33.420	1.00	37.84	C
ATOM	5932	O	THR	C	314	66.753	135.168	34.053	1.00	37.84	C
ATOM	5933	N	ALA	C	315	64.645	135.851	33.541	1.00	99.46	C
ATOM	5934	CA	ALA	C	315	64.583	137.009	34.443	1.00	99.46	C
ATOM	5935	CB	ALA	C	315	65.806	137.909	34.228	1.00	90.21	C
ATOM	5936	C	ALA	C	315	63.286	137.816	34.214	1.00	99.46	C
ATOM	5937	O	ALA	C	315	62.393	137.820	35.062	1.00	99.46	C
ATOM	5938	N	GLY	C	316	63.212	138.480	33.056	1.00	46.37	C
ATOM	5939	CA	GLY	C	316	62.078	139.307	32.640	1.00	46.37	C
ATOM	5940	C	GLY	C	316	60.711	139.226	33.301	1.00	46.37	C
ATOM	5941	O	GLY	C	316	60.598	139.102	34.512	1.00	46.37	C
ATOM	5942	N	VAL	C	317	59.659	139.311	32.492	1.00	94.07	C
ATOM	5943	CA	VAL	C	317	58.294	139.273	33.007	1.00	94.07	C
ATOM	5944	CB	VAL	C	317	57.619	140.651	32.831	1.00	37.23	C
ATOM	5945	CG1	VAL	C	317	56.113	140.546	33.042	1.00	37.23	C
ATOM	5946	CG2	VAL	C	317	58.211	141.622	33.821	1.00	37.23	C
ATOM	5947	C	VAL	C	317	57.372	138.182	32.443	1.00	94.07	C
ATOM	5948	O	VAL	C	317	56.591	137.592	33.198	1.00	94.07	C
ATOM	5949	N	PRO	C	318	57.443	137.894	31.121	1.00	100.07	C
ATOM	5950	CD	PRO	C	318	58.415	138.347	30.106	1.00	86.80	C
ATOM	5951	CA	PRO	C	318	56.568	136.853	30.563	1.00	100.07	C
ATOM	5952	CB	PRO	C	318	56.898	136.884	29.072	1.00	86.80	C
ATOM	5953	CG	PRO	C	318	58.347	137.242	29.064	1.00	86.80	C
ATOM	5954	C	PRO	C	318	56.861	135.496	31.199	1.00	100.07	C
ATOM	5955	O	PRO	C	318	55.947	134.746	31.544	1.00	100.07	C
ATOM	5956	N	GLY	C	319	58.145	135.193	31.356	1.00	77.43	C
ATOM	5957	CA	GLY	C	319	58.533	133.938	31.964	1.00	77.43	C
ATOM	5958	C	GLY	C	319	57.845	132.752	31.331	1.00	77.43	C
ATOM	5959	O	GLY	C	319	58.306	132.243	30.310	1.00	77.43	C
ATOM	5960	N	HIS	C	320	56.727	132.328	31.914	1.00	37.14	C
ATOM	5961	CA	HIS	C	320	56.018	131.166	31.395	1.00	37.14	C
ATOM	5962	CB	HIS	C	320	55.453	131.420	29.988	1.00	100.07	C
ATOM	5963	CG	HIS	C	320	54.381	132.465	29.920	1.00	100.07	C
ATOM	5964	CD2	HIS	C	320	54.251	133.553	29.123	1.00	100.07	C
ATOM	5965	ND1	HIS	C	320	53.237	132.416	30.689	1.00	100.07	C
ATOM	5966	CE1	HIS	C	320	52.448	133.427	30.366	1.00	100.07	C
ATOM											



ATOM	6011	CB	ALA	C	327	48.566	116.742	29.035	1.00	100.07	C
ATOM	6012	C	ALA	C	327	47.896	118.882	27.915	1.00	83.77	C
ATOM	6013	O	ALA	C	327	46.886	118.358	27.413	1.00	83.77	C
ATOM	6014	N	LEU	C	328	48.066	120.193	28.049	1.00	42.59	C
ATOM	6015	CA	LEU	C	328	47.050	121.145	27.666	1.00	42.59	C
ATOM	6016	CB	LEU	C	328	47.357	122.477	28.361	1.00	39.91	C
ATOM	6017	CG	LEU	C	328	46.236	123.450	28.735	1.00	39.91	C
ATOM	6018	CD1	LEU	C	328	44.939	122.754	29.142	1.00	39.91	C
ATOM	6019	CD2	LEU	C	328	46.753	124.267	29.879	1.00	39.91	C
ATOM	6020	C	LEU	C	328	46.947	121.304	26.152	1.00	42.59	C
ATOM	6021	O	LEU	C	328	46.797	120.320	25.413	1.00	42.59	C
ATOM	6022	N	GLY	C	329	46.991	122.551	25.694	1.00	100.07	C
ATOM	6023	CA	GLY	C	329	46.926	122.817	24.270	1.00	100.07	C
ATOM	6024	C	GLY	C	329	48.262	122.387	23.719	1.00	100.07	C
ATOM	6025	O	GLY	C	329	48.749	122.908	22.718	1.00	100.07	C
ATOM	6026	N	ASN	C	330	48.860	121.432	24.418	1.00	28.65	C
ATOM	6027	CA	ASN	C	330	50.146	120.883	24.055	1.00	28.65	C
ATOM	6028	CB	ASN	C	330	51.213	121.388	25.021	1.00	44.56	C
ATOM	6029	CG	ASN	C	330	51.338	122.912	25.021	1.00	44.56	C
ATOM	6030	OD1	ASN	C	330	51.807	123.496	26.001	1.00	44.56	C
ATOM	6031	ND2	ASN	C	330	50.935	123.557	23.926	1.00	44.56	C
ATOM	6032	C	ASN	C	330	50.033	119.363	24.116	1.00	28.65	C
ATOM	6033	O	ASN	C	330	50.403	118.721	25.109	1.00	28.65	C
ATOM	6034	N	ALA	C	331	49.503	118.802	23.034	1.00	20.61	C
ATOM	6035	CA	ALA	C	331	49.316	117.367	22.934	1.00	20.61	C
ATOM	6036	CB	ALA	C	331	48.399	116.895	24.066	1.00	5.07	C
ATOM	6037	C	ALA	C	331	48.740	116.969	21.565	1.00	20.61	C
ATOM	6038	O	ALA	C	331	47.548	116.694	21.429	1.00	20.61	C
ATOM	6039	N	ALA	C	332	49.589	116.930	20.547	1.00	100.07	C
ATOM	6040	CA	ALA	C	332	49.106	116.575	19.218	1.00	100.07	C
ATOM	6041	CB	ALA	C	332	50.079	117.058	18.141	1.00	71.55	C
ATOM	6042	C	ALA	C	332	48.852	115.081	19.061	1.00	100.07	C
ATOM	6043	O	ALA	C	332	49.709	114.250	19.357	1.00	100.07	C
ATOM	6044	N	ILE	C	333	47.652	114.759	18.594	1.00	69.05	C
ATOM	6045	CA	ILE	C	333	47.227	113.387	18.361	1.00	69.05	C
ATOM	6046	CB	ILE	C	333	45.710	113.268	18.608	1.00	45.11	C
ATOM	6047	CG2	ILE	C	333	45.224	111.888	18.289	1.00	45.11	C
ATOM	6048	CG1	ILE	C	333	45.407	113.544	20.075	1.00	45.11	C
ATOM	6049	CD	ILE	C	333	45.688	112.362	20.972	1.00	45.11	C
ATOM	6050	C	ILE	C	333	47.546	112.994	16.916	1.00	69.05	C
ATOM	6051	O	ILE	C	333	47.965	113.823	16.103	1.00	69.05	C
ATOM	6052	N	ARG	C	334	47.368	111.719	16.610	1.00	26.87	C
ATOM	6053	CA	ARG	C	334	47.610	111.214	15.270	1.00	26.87	C
ATOM	6054	CB	ARG	C	334	49.059	110.751	15.117	1.00	28.56	C
ATOM	6055	CG	ARG	C	334	49.983	111.909	14.867	1.00	28.56	C
ATOM	6056	CD	ARG	C	334	51.142	111.584	13.941	1.00	28.56	C
ATOM	6057	NE	ARG	C	334	52.127	110.690	14.528	1.00	28.56	C
ATOM	6058	CZ	ARG	C	334	53.219	110.295	13.884	1.00	28.56	C
ATOM	6059	NH1	ARG	C	334	53.451	110.722	12.651	1.00	28.56	C
ATOM	6060	NH2	ARG	C	334	54.069	109.453	14.453	1.00	28.56	C
ATOM	6061	C	ARG	C	334	46.668	110.084	14.910	1.00	26.87	C
ATOM	6062	O	ARG	C	334	46.963	108.913	15.132	1.00	26.87	C
ATOM	6063	N	THR	C	335	45.513	110.437	14.375	1.00	43.35	C
ATOM	6064	CA	THR	C	335	44.591	109.407	13.977	1.00	43.35	C
ATOM	6065	CB	THR	C	335	43.301	110.013	13.380	1.00	44.39	C
ATOM	6066	OG1	THR	C	335	43.574	111.329	12.886	1.00	44.39	C
ATOM	6067	CG2	THR	C	335	42.208	110.089	14.438	1.00	44.39	C
ATOM	6068	C	THR	C	335	45.331	108.568	12.931	1.00	43.35	C
ATOM	6069	O	THR	C	335	46.145	109.092	12.162	1.00	43.35	C
ATOM	6070	N	VAL	C	336	45.075	107.262	12.943	1.00	9.90	C
ATOM	6071	CA	VAL	C	336	45.686	106.327	12.011	1.00	9.90	C
ATOM	6072	CB	VAL	C	336	44.735	105.196	11.684	1.00	10.63	C
ATOM	6073	CG1	VAL	C	336	45.434	104.171	10.854	1.00	10.63	C
ATOM	6074	CG2	VAL	C	336	44.197	104.601	12.952	1.00	10.63	C
ATOM	6075	C	VAL	C	336	46.002	107.039	10.722	1.00	9.90	C
ATOM	6076	O	VAL	C	336	47.115	106.971	10.223	1.00	9.90	C
ATOM	6077	N	GLY	C	337	45.002	107.736	10.195	1.00	33.04	C
ATOM	6078	CA	GLY	C	337	45.183	108.453	8.951	1.00	33.04	C
ATOM	6079	C	GLY	C	337	46.562	109.058	8.856	1.00	33.04	C
ATOM	6080	O	GLY	C	337	47.302	108.818	7.904	1.00	33.04	C
ATOM	6081	N	GLU	C	338	46.904	109.837	9.871	1.00	39.99	C
ATOM	6082	CA	GLU	C	338	48.191	110.493	9.937	1.00	39.99	C
ATOM	6083	CB	GLU	C	338	48.255	111.322	11.226	1.00	46.47	C
ATOM	6084	CG	GLU	C	338	48.869	112.717	11.109	1.00	46.47	C
ATOM	6085	CD	GLU	C	338	48.639	113.553	12.368	1.00	46.47	C
ATOM	6086	OE1	GLU	C	338	49.372	114.537	12.587	1.00	46.47	C
ATOM	6087	OE2	GLU	C	338	47.716	113.235	13.146	1.00	46.47	C
ATOM	6088	C	GLU	C	338	49.319	109.445	9.889	1.00	39.99	C
ATOM	6089	O	GLU	C	338	50.140	109.477	8.973	1.00	39.99	C
ATOM	6090	N	LEU	C	339	49.342	108.508	10.846	1.00	16.83	C
ATOM	6091	CA	LEU	C	339	50.393	107.475	10.909	1.00	16.83	C
ATOM	6092	CB	LEU	C	339	50.096	106.439	12.002	1.00	9.52	C
ATOM	6093	CG	LEU	C	339	49.716	106.874	13.429	1.00	9.52	C
ATOM	6094	CD1	LEU	C	339	48.216	107.139	13.435	1.00	9.52	C



ATOM	6095	CD2	LEU	C	339	50.064	105.799	14.488	1.00	9.52	C
ATOM	6096	C	LEU	C	339	50.606	106.724	9.597	1.00	16.83	C
ATOM	6097	O	LEU	C	339	51.731	106.624	9.101	1.00	16.83	C
ATOM	6098	N	MET	C	340	49.522	106.175	9.053	1.00	35.16	C
ATOM	6099	CA	MET	C	340	49.557	105.431	7.795	1.00	35.16	C
ATOM	6100	CB	MET	C	340	48.144	104.929	7.466	1.00	52.11	C
ATOM	6101	CG	MET	C	340	47.974	104.323	6.086	1.00	52.11	C
ATOM	6102	SD	MET	C	340	48.305	105.523	4.786	1.00	52.11	C
ATOM	6103	CE	MET	C	340	47.118	106.781	5.204	1.00	52.11	C
ATOM	6104	C	MET	C	340	50.076	106.365	6.702	1.00	35.16	C
ATOM	6105	O	MET	C	340	50.874	105.978	5.841	1.00	35.16	C
ATOM	6106	N	ALA	C	341	49.598	107.600	6.742	1.00	35.96	C
ATOM	6107	CA	ALA	C	341	50.016	108.602	5.791	1.00	35.96	C
ATOM	6108	CB	ALA	C	341	49.380	109.924	6.127	1.00	14.91	C
ATOM	6109	C	ALA	C	341	51.529	108.713	5.880	1.00	35.96	C
ATOM	6110	O	ALA	C	341	52.225	108.387	4.925	1.00	35.96	C
ATOM	6111	N	ASP	C	342	52.035	109.163	7.029	1.00	42.69	C
ATOM	6112	CA	ASP	C	342	53.475	109.309	7.235	1.00	42.69	C
ATOM	6113	CB	ASP	C	342	53.801	109.389	8.727	1.00	55.31	C
ATOM	6114	CG	ASP	C	342	53.325	110.682	9.358	1.00	55.31	C
ATOM	6115	OD1	ASP	C	342	53.634	111.752	8.798	1.00	55.31	C
ATOM	6116	OD2	ASP	C	342	52.650	110.635	10.411	1.00	55.31	C
ATOM	6117	C	ASP	C	342	54.276	108.169	6.613	1.00	42.69	C
ATOM	6118	O	ASP	C	342	55.328	108.395	6.004	1.00	42.69	C
ATOM	6119	N	GLN	C	343	53.774	106.947	6.763	1.00	63.10	C
ATOM	6120	CA	GLN	C	343	54.445	105.777	6.212	1.00	63.10	C
ATOM	6121	CB	GLN	C	343	53.656	104.520	6.536	1.00	61.98	C
ATOM	6122	CG	GLN	C	343	54.535	103.434	7.111	1.00	61.98	C
ATOM	6123	CD	GLN	C	343	55.534	103.969	8.134	1.00	61.98	C
ATOM	6124	OE1	GLN	C	343	55.155	104.570	9.150	1.00	61.98	C
ATOM	6125	NE2	GLN	C	343	56.821	103.754	7.866	1.00	61.98	C
ATOM	6126	C	GLN	C	343	54.616	105.921	4.713	1.00	63.10	C
ATOM	6127	O	GLN	C	343	55.556	105.392	4.137	1.00	63.10	C
ATOM	6128	N	PHE	C	344	53.689	106.628	4.083	1.00	69.38	C
ATOM	6129	CA	PHE	C	344	53.780	106.884	2.657	1.00	69.38	C
ATOM	6130	CB	PHE	C	344	52.519	107.573	2.141	1.00	29.38	C
ATOM	6131	CG	PHE	C	344	51.854	106.863	1.006	1.00	29.38	C
ATOM	6132	CD1	PHE	C	344	50.631	107.304	0.532	1.00	29.38	C
ATOM	6133	CD2	PHE	C	344	52.417	105.722	0.449	1.00	29.38	C
ATOM	6134	CE1	PHE	C	344	49.971	106.616	-0.476	1.00	29.38	C
ATOM	6135	CE2	PHE	C	344	51.766	105.018	-0.564	1.00	29.38	C
ATOM	6136	CZ	PHE	C	344	50.540	105.464	-1.029	1.00	29.38	C
ATOM	6137	C	PHE	C	344	54.935	107.858	2.545	1.00	69.38	C
ATOM	6138	O	PHE	C	344	55.911	107.602	1.839	1.00	69.38	C
ATOM	6139	N	ARG	C	345	54.803	108.983	3.252	1.00	63.64	C
ATOM	6140	CA	ARG	C	345	55.827	110.016	3.260	1.00	63.64	C
ATOM	6141	CB	ARG	C	345	55.636	110.950	4.456	1.00	50.37	C
ATOM	6142	CG	ARG	C	345	54.277	111.641	4.500	1.00	50.37	C
ATOM	6143	CD	ARG	C	345	53.992	112.212	5.892	1.00	50.37	C
ATOM	6144	NE	ARG	C	345	52.564	112.431	6.141	1.00	50.37	C
ATOM	6145	CZ	ARG	C	345	51.892	113.525	5.795	1.00	50.37	C
ATOM	6146	NH1	ARG	C	345	52.507	114.526	5.179	1.00	50.37	C
ATOM	6147	NH2	ARG	C	345	50.602	113.623	6.076	1.00	50.37	C
ATOM	6148	C	ARG	C	345	57.140	109.270	3.375	1.00	63.64	C
ATOM	6149	O	ARG	C	345	58.081	109.529	2.630	1.00	63.64	C
ATOM	6150	N	VAL	C	346	57.179	108.313	4.297	1.00	64.40	C
ATOM	6151	CA	VAL	C	346	58.367	107.494	4.507	1.00	64.40	C
ATOM	6152	CB	VAL	C	346	58.214	106.589	5.743	1.00	100.07	C
ATOM	6153	CG1	VAL	C	346	59.487	105.781	5.948	1.00	100.07	C
ATOM	6154	CG2	VAL	C	346	57.908	107.423	6.970	1.00	100.07	C
ATOM	6155	C	VAL	C	346	58.600	106.588	3.298	1.00	64.40	C
ATOM	6156	O	VAL	C	346	59.740	106.331	2.906	1.00	64.40	C
ATOM	6157	N	GLY	C	347	57.505	106.096	2.725	1.00	21.03	C
ATOM	6158	CA	GLY	C	347	57.595	105.221	1.579	1.00	21.03	C
ATOM	6159	C	GLY	C	347	58.234	105.932	0.414	1.00	21.03	C
ATOM	6160	O	GLY	C	347	59.384	105.656	0.064	1.00	21.03	C
ATOM	6161	N	LEU	C	348	57.481	106.848	-0.187	1.00	55.93	C
ATOM	6162	CA	LEU	C	348	57.953	107.615	-1.327	1.00	55.93	C
ATOM	6163	CB	LEU	C	348	57.077	108.850	-1.524	1.00	33.94	C
ATOM	6164	CG	LEU	C	348	55.662	108.617	-2.052	1.00	33.94	C
ATOM	6165	CD1	LEU	C	348	54.842	107.776	-1.083	1.00	33.94	C
ATOM	6166	CD2	LEU	C	348	55.004	109.971	-2.263	1.00	33.94	C
ATOM	6167	C	LEU	C	348	59.402	108.030	-1.116	1.00	55.93	C
ATOM	6168	O	LEU	C	348	60.152	108.230	-2.071	1.00	55.93	C
ATOM	6169	N	ALA	C	349	59.789	108.147	0.151	1.00	98.46	C
ATOM	6170	CA	ALA	C	349	61.149	108.530	0.516	1.00	98.46	C
ATOM	6171	CB	ALA	C	349	61.304	108.533	2.039	1.00	100.07	C
ATOM	6172	C	ALA	C	349	62.175	107.593	-0.113	1.00	98.46	C
ATOM	6173	O	ALA	C	349	63.357	107.926	-0.209	1.00	98.46	C
ATOM	6174	N	ARG	C	350	61.726	106.417	-0.535	1.00	29.60	C
ATOM	6175	CA	ARG	C	350	62.637	105.482	-1.159	1.00	29.60	C
ATOM	6176	CB	ARG	C	350	62.231	104.039	-0.870	1.00	100.07	C
ATOM	6177	CG	ARG	C	350	63.181	103.028	-1.506	1.00	100.07	C
ATOM	6178	CD	ARG	C	350	62.729	101.594	-1.289	1.00	100.07	C



ATOM	6179	NE	ARG	C	350	63.506	100.653	-2.091	1.00100.07	C	
ATOM	6180	CZ	ARG	C	350	63.147	99.395	-2.328	1.00100.07	C	
ATOM	6181	NH1	ARG	C	350	62.011	98.917	-1.825	1.00100.07	C	
ATOM	6182	NH2	ARG	C	350	63.931	98.616	-3.068	1.00100.07	C	
ATOM	6183	C	ARG	C	350	62.722	105.701	-2.669	1.00	29.60	C
ATOM	6184	O	ARG	C	350	63.713	106.255	-3.151	1.00	29.60	C
ATOM	6185	N	LEU	C	351	61.697	105.282	-3.413	1.00	85.61	C
ATOM	6186	CA	LEU	C	351	61.717	105.445	-4.867	1.00	85.61	C
ATOM	6187	CB	LEU	C	351	60.315	105.339	-5.477	1.00	22.25	C
ATOM	6188	CG	LEU	C	351	59.479	106.627	-5.477	1.00	22.25	C
ATOM	6189	CD1	LEU	C	351	58.370	106.525	-6.500	1.00	22.25	C
ATOM	6190	CD2	LEU	C	351	58.915	106.879	-4.091	1.00	22.25	C
ATOM	6191	C	LEU	C	351	62.285	106.813	-5.203	1.00	85.61	C
ATOM	6192	O	LEU	C	351	62.921	106.992	-6.239	1.00	85.61	C
ATOM	6193	N	ALA	C	352	62.033	107.781	-4.325	1.00	59.25	C
ATOM	6194	CA	ALA	C	352	62.541	109.128	-4.523	1.00	59.25	C
ATOM	6195	CB	ALA	C	352	62.459	109.908	-3.223	1.00100.07	C	
ATOM	6196	C	ALA	C	352	63.990	108.975	-4.966	1.00	59.25	C
ATOM	6197	O	ALA	C	352	64.339	109.302	-6.098	1.00	59.25	C
ATOM	6198	N	ARG	C	353	64.825	108.455	-4.070	1.00	45.38	C
ATOM	6199	CA	ARG	C	353	66.228	108.234	-4.382	1.00	45.38	C
ATOM	6200	CB	ARG	C	353	66.905	107.463	-3.255	1.00100.07	C	
ATOM	6201	CG	ARG	C	353	68.038	108.201	-2.586	1.00100.07	C	
ATOM	6202	CD	ARG	C	353	67.540	109.352	-1.730	1.00100.07	C	
ATOM	6203	NE	ARG	C	353	68.628	109.920	-0.938	1.00100.07	C	
ATOM	6204	CZ	ARG	C	353	68.484	110.884	-0.035	1.00100.07	C	
ATOM	6205	NH1	ARG	C	353	67.285	111.403	0.204	1.00100.07	C	
ATOM	6206	NH2	ARG	C	353	69.543	111.325	0.633	1.00100.07	C	
ATOM	6207	C	ARG	C	353	66.252	107.394	-5.644	1.00	45.38	C
ATOM	6208	O	ARG	C	353	67.009	107.659	-6.575	1.00	45.38	C
ATOM	6209	N	GLY	C	354	65.397	106.379	-5.661	1.00	74.85	C
ATOM	6210	CA	GLY	C	354	65.314	105.487	-6.799	1.00	74.85	C
ATOM	6211	C	GLY	C	354	64.899	106.175	-8.082	1.00	74.85	C
ATOM	6212	O	GLY	C	354	64.875	105.542	-9.134	1.00	74.85	C
ATOM	6213	N	VAL	C	355	64.550	107.457	-8.018	1.00	59.81	C
ATOM	6214	CA	VAL	C	355	64.167	108.164	-9.236	1.00	59.81	C
ATOM	6215	CB	VAL	C	355	63.149	109.304	-8.970	1.00	34.18	C
ATOM	6216	CG1	VAL	C	355	63.878	110.644	-8.773	1.00	34.18	C
ATOM	6217	CG2	VAL	C	355	62.153	109.374	-10.120	1.00	34.18	C
ATOM	6218	C	VAL	C	355	65.446	108.739	-9.842	1.00	59.81	C
ATOM	6219	O	VAL	C	355	65.691	108.595	-11.035	1.00	59.81	C



ATOM	6263	CG	MET	C	361	72.980	103.976	-14.808	1.00100.07	C
ATOM	6264	SD	MET	C	361	71.516	103.001	-15.211	1.00100.07	C
ATOM	6265	CE	MET	C	361	71.038	102.450	-13.616	1.00100.07	C
ATOM	6266	C	MET	C	361	70.890	105.771	-16.042	1.00 64.36	C
ATOM	6267	O	MET	C	361	69.960	105.354	-15.345	1.00 64.36	C
ATOM	6268	N	GLY	C	362	70.853	105.783	-17.374	1.00 40.07	C
ATOM	6269	CA	GLY	C	362	69.687	105.269	-18.075	1.00 40.07	C
ATOM	6270	C	GLY	C	362	69.531	105.835	-19.468	1.00 40.07	C
ATOM	6271	O	GLY	C	362	70.290	106.724	-19.856	1.00 40.07	C
ATOM	6272	N	SER	C	363	68.543	105.326	-20.209	1.00 66.93	C
ATOM	6273	CA	SER	C	363	68.272	105.750	-21.590	1.00 66.93	C
ATOM	6274	CB	SER	C	363	67.563	104.629	-22.355	1.00100.07	C
ATOM	6275	OG	SER	C	363	67.247	105.034	-23.676	1.00100.07	C
ATOM	6276	C	SER	C	363	67.432	107.021	-21.678	1.00 66.93	C
ATOM	6277	O	SER	C	363	66.202	106.966	-21.709	1.00 66.93	C
ATOM	6278	N	PRO	C	364	68.097	108.181	-21.773	1.00 63.54	C
ATOM	6279	CD	PRO	C	364	69.500	108.289	-22.209	1.00 93.74	C
ATOM	6280	CA	PRO	C	364	67.436	109.487	-21.856	1.00 63.54	C
ATOM	6281	CB	PRO	C	364	68.535	110.390	-22.425	1.00 93.74	C
ATOM	6282	CG	PRO	C	364	69.431	109.431	-23.172	1.00 93.74	C
ATOM	6283	C	PRO	C	364	66.124	109.562	-22.651	1.00 63.54	C
ATOM	6284	O	PRO	C	364	65.233	110.345	-22.302	1.00 63.54	C
ATOM	6285	N	ASP	C	365	65.998	108.754	-23.704	1.00 99.87	C
ATOM	6286	CA	ASP	C	365	64.785	108.774	-24.525	1.00 99.87	C
ATOM	6287	CB	ASP	C	365	65.149	108.753	-26.020	1.00100.07	C
ATOM	6288	CG	ASP	C	365	64.028	109.302	-26.917	1.00100.07	C
ATOM	6289	OD1	ASP	C	365	64.179	109.263	-28.161	1.00100.07	C
ATOM	6290	OD2	ASP	C	365	62.999	109.781	-26.385	1.00100.07	C
ATOM	6291	C	ASP	C	365	63.842	107.610	-24.204	1.00 99.87	C
ATOM	6292	O	ASP	C	365	62.645	107.666	-24.505	1.00 99.87	C
ATOM	6293	N	THR	C	366	64.376	106.558	-23.595	1.00100.07	C
ATOM	6294	CA	THR	C	366	63.553	105.408	-23.247	1.00100.07	C
ATOM	6295	CB	THR	C	366	64.290	104.088	-23.523	1.00 81.24	C
ATOM	6296	OG1	THR	C	366	64.670	104.036	-24.905	1.00 81.24	C
ATOM	6297	CG2	THR	C	366	63.386	102.900	-23.206	1.00 81.24	C
ATOM	6298	C	THR	C	366	63.158	105.463	-21.780	1.00100.07	C
ATOM	6299	O	THR	C	366	62.175	104.847	-21.369	1.00100.07	C
ATOM	6300	N	LEU	C	367	63.933	106.208	-20.999	1.00 87.14	C
ATOM	6301	CA	LEU	C	367	63.670	106.360	-19.578	1.00 87.14	C
ATOM	6302	CB	LEU	C	367	64.690	107.305	-18.942	1.00100.07	C
ATOM	6303	CG	LEU	C	367	66.110	106.775	-18.731	1.00100.07	C
ATOM	6304	CD1	LEU	C	367	67.010	107.904	-18.244	1.	



ATOM	6347	CG1	VAL	C	373	57.413	103.633	-9.710	1.00	71.59
ATOM	6348	CG2	VAL	C	373	58.462	105.547	-10.900	1.00	71.59
ATOM	6349	C	VAL	C	373	59.319	101.854	-10.547	1.00	83.09
ATOM	6350	O	VAL	C	373	58.975	101.019	-11.377	1.00	83.09
ATOM	6351	N	ASN	C	374	59.498	101.567	-9.263	1.00	53.47
ATOM	6352	CA	ASN	C	374	59.283	100.222	-8.746	1.00	53.47
ATOM	6353	CB	ASN	C	374	60.617	99.578	-8.370	1.00	100.07
ATOM	6354	CG	ASN	C	374	61.586	99.530	-9.539	1.00	100.07
ATOM	6355	OD1	ASN	C	374	61.214	99.159	-10.658	1.00	100.07
ATOM	6356	ND2	ASN	C	374	62.839	99.897	-9.284	1.00	100.07
ATOM	6357	C	ASN	C	374	58.340	100.233	-7.541	1.00	53.47
ATOM	6358	O	ASN	C	374	58.368	101.153	-6.716	1.00	53.47
ATOM	6359	N	SER	C	375	57.502	99.204	-7.444	1.00	68.54
ATOM	6360	CA	SER	C	375	56.534	99.115	-6.362	1.00	68.54
ATOM	6361	CB	SER	C	375	55.250	98.475	-6.878	1.00	100.07
ATOM	6362	OG	SER	C	375	54.754	99.187	-7.999	1.00	100.07
ATOM	6363	C	SER	C	375	57.051	98.340	-5.169	1.00	68.54
ATOM	6364	O	SER	C	375	56.412	97.396	-4.712	1.00	68.54
ATOM	6365	N	ARG	C	376	58.216	98.739	-4.672	1.00	40.13
ATOM	6366	CA	ARG	C	376	58.826	98.088	-3.518	1.00	40.13
ATOM	6367	CB	ARG	C	376	60.207	97.525	-3.868	1.00	100.07
ATOM	6368	CG	ARG	C	376	60.149	96.199	-4.626	1.00	100.07
ATOM	6369	CD	ARG	C	376	61.510	95.505	-4.704	1.00	100.07
ATOM	6370	NE	ARG	C	376	61.388	94.123	-5.172	1.00	100.07
ATOM	6371	CZ	ARG	C	376	62.390	93.248	-5.208	1.00	100.07
ATOM	6372	NH1	ARG	C	376	63.604	93.607	-4.801	1.00	100.07
ATOM	6373	NH2	ARG	C	376	62.173	92.010	-5.644	1.00	100.07
ATOM	6374	C	ARG	C	376	58.936	99.080	-2.381	1.00	40.13
ATOM	6375	O	ARG	C	376	58.538	98.795	-1.257	1.00	40.13
ATOM	6376	N	PRO	C	377	59.475	100.267	-2.658	1.00	70.63
ATOM	6377	CD	PRO	C	377	59.910	100.758	-3.972	1.00	100.07
ATOM	6378	CA	PRO	C	377	59.626	101.313	-1.645	1.00	70.63
ATOM	6379	CB	PRO	C	377	59.967	102.554	-2.478	1.00	100.07
ATOM	6380	CG	PRO	C	377	59.513	102.193	-3.888	1.00	100.07
ATOM	6381	C	PRO	C	377	58.394	101.535	-0.760	1.00	70.63
ATOM	6382	O	PRO	C	377	58.501	101.506	0.463	1.00	70.63
ATOM	6383	N	LEU	C	378	57.238	101.760	-1.386	1.00	70.91
ATOM	6384	CA	LEU	C	378	55.985	101.992	-0.665	1.00	70.91
ATOM	6385	CB	LEU	C	378	54.940	102.613	-1.586	1.00	81.51
ATOM	6386	CG	LEU	C	378	55.158	104.095	-1.863	1.00	81.51
ATOM	6387	CD1	LEU	C	378	56.464	104.313	-2.625	1.00	81.51
ATOM	6388	CD2	LEU	C	378	53.980	104.609	-2.648	1.00	81.51
ATOM	6389	C	LEU	C	378	55.421	100.727			



ATOM	6431	CB	GLU	C	384	57.712	97.282	7.523	1.00	84.63	C
ATOM	6432	CG	GLU	C	384	58.655	96.650	8.525	1.00	84.63	C
ATOM	6433	CD	GLU	C	384	59.980	97.370	8.618	1.00	84.63	C
ATOM	6434	OE1	GLU	C	384	60.038	98.424	9.291	1.00	84.63	C
ATOM	6435	OE2	GLU	C	384	60.962	96.887	8.010	1.00	84.63	C
ATOM	6436	C	GLU	C	384	55.535	97.481	8.675	1.00	56.29	C
ATOM	6437	O	GLU	C	384	55.254	96.945	9.742	1.00	56.29	C
ATOM	6438	N	PHE	C	385	55.163	98.726	8.402	1.00	53.87	C
ATOM	6439	CA	PHE	C	385	54.421	99.423	9.439	1.00	53.87	C
ATOM	6440	CB	PHE	C	385	54.222	100.908	9.165	1.00	31.97	C
ATOM	6441	CG	PHE	C	385	53.353	101.582	10.214	1.00	31.97	C
ATOM	6442	CD1	PHE	C	385	53.785	101.677	11.540	1.00	31.97	C
ATOM	6443	CD2	PHE	C	385	52.078	102.045	9.900	1.00	31.97	C
ATOM	6444	CE1	PHE	C	385	52.972	102.214	12.527	1.00	31.97	C
ATOM	6445	CE2	PHE	C	385	51.263	102.581	10.885	1.00	31.97	C
ATOM	6446	CZ	PHE	C	385	51.714	102.663	12.200	1.00	31.97	C
ATOM	6447	C	PHE	C	385	53.052	98.832	9.728	1.00	53.87	C
ATOM	6448	O	PHE	C	385	52.946	97.856	10.462	1.00	53.87	C
ATOM	6449	N	PHE	C	386	52.014	99.425	9.140	1.00	46.11	C
ATOM	6450	CA	PHE	C	386	50.639	99.012	9.381	1.00	46.11	C
ATOM	6451	CB	PHE	C	386	49.834	98.926	8.081	1.00	42.42	C
ATOM	6452	CG	PHE	C	386	48.394	99.267	8.272	1.00	42.42	C
ATOM	6453	CD1	PHE	C	386	47.875	100.451	7.768	1.00	42.42	C
ATOM	6454	CD2	PHE	C	386	47.581	98.465	9.076	1.00	42.42	C
ATOM	6455	CE1	PHE	C	386	46.555	100.840	8.071	1.00	42.42	C
ATOM	6456	CE2	PHE	C	386	46.261	98.844	9.386	1.00	42.42	C
ATOM	6457	CZ	PHE	C	386	45.745	100.033	8.888	1.00	42.42	C
ATOM	6458	C	PHE	C	386	50.535	97.694	10.134	1.00	46.11	C
ATOM	6459	O	PHE	C	386	50.323	97.674	11.353	1.00	46.11	C
ATOM	6460	N	SER	C	387	50.696	96.589	9.423	1.00	23.33	C
ATOM	6461	CA	SER	C	387	50.619	95.294	10.078	1.00	23.33	C
ATOM	6462	CB	SER	C	387	50.407	94.188	9.038	1.00	100.07	C
ATOM	6463	CG	SER	C	387	49.034	93.837	8.945	1.00	100.07	C
ATOM	6464	C	SER	C	387	51.886	95.050	10.875	1.00	23.33	C
ATOM	6465	O	SER	C	387	52.297	95.891	11.652	1.00	23.33	C
ATOM	6466	N	ARG	C	388	52.495	93.897	10.676	1.00	84.80	C
ATOM	6467	CA	ARG	C	388	53.716	93.533	11.361	1.00	84.80	C
ATOM	6468	CB	ARG	C	388	54.832	93.413	10.327	1.00	100.07	C
ATOM	6469	CG	ARG	C	388	54.634	92.229	9.379	1.00	100.07	C
ATOM	6470	CD	ARG	C	388	55.745	92.147	8.349	1.00	100.07	C
ATOM	6471	NE	ARG	C	388	56.133	90.770	8.059	1.00	100.07	C
ATOM	6472	CZ	ARG	C	388	57.221	90.434	7.369	1.00	100.07	C
ATOM	6473	NH1	ARG	C	388	58.026	91.378	6.897	1.00	100.07	C
ATOM	6474	NH2	ARG	C	388	57.517	89.157	7.162	1.00	100.07	C
ATOM	6475	C	ARG	C	388	54.163	94.399	12.553	1.00	84.80	C
ATOM	6476	O	ARG	C	388	53.417	94.569	13.516	1.00	84.80	C
ATOM	6477	N	SER	C	389	55.372	94.948	12.487	1.00	15.17	C
ATOM	6478	CA	SER	C	389	55.938	95.743	13.591	1.00	15.17	C
ATOM	6479	CB	SER	C	389	57.466	95.729	13.482	1.00	100.07	C
ATOM	6480	OG	SER	C	389	57.900	96.390	12.301	1.00	100.07	C
ATOM	6481	C	SER	C	389	55.498	97.197	13.797	1.00	15.17	C
ATOM	6482	O	SER	C	389	55.539	98.003	12.868	1.00	15.17	C
ATOM	6483	N	ALA	C	390	55.130	97.520	15.034	1.00	74.60	C
ATOM	6484	CA	ALA	C	390	54.695	98.860	15.437	1.00	74.60	C
ATOM	6485	CB	ALA	C	390	54.061	99.607	14.271	1.00	54.82	C
ATOM	6486	C	ALA	C	390	53.680	98.725	16.561	1.00	74.60	C
ATOM	6487	O	ALA	C	390	52.511	98.422	16.299	1.00	74.60	C
ATOM	6488	N	LEU	C	391	54.128	98.943	17.800	1.00	99.21	C
ATOM	6489	CA	LEU	C	391	53.259	98.846	18.973	1.00	99.21	C
ATOM	6490	CB	LEU	C	391	53.669	99.858	20.047	1.00	100.07	C
ATOM	6491	CG	LEU	C	391	54.523	99.374	21.223	1.00	100.07	C
ATOM	6492	CD1	LEU	C	391	54.940	100.571	22.082	1.00	100.07	C
ATOM	6493	CD2	LEU	C	391	53.733	98.361	22.048	1.00	100.07	C
ATOM	6494	C	LEU	C	391	51.833	99.122	18.557	1.00	99.21	C
ATOM	6495	O	LEU	C	391	50.907	98.427	18.965	1.00	99.21	C
ATOM	6496	N	SER	C	392	51.668	100.138	17.723	1.00	41.66	C
ATOM	6497	CA	SER	C	392	50.358	100.503	17.242	1.00	41.66	C
ATOM	6498	CB	SER	C	392	50.422	101.884	16.574	1.00	44.66	C
ATOM	6499	OG	SER	C	392	50.865	102.887	17.483	1.00	44.66	C
ATOM	6500	C	SER	C	392	49.798	99.439	16.283	1.00	41.66	C
ATOM	6501	O	SER	C	392	49.167	99.757	15.276	1.00	41.66	C
ATOM	6502	N	GLN	C	393	50.035	98.170	16.595	1.00	45.63	C
ATOM	6503	CA	GLN	C	393	49.507	97.080	15.782	1.00	45.63	C
ATOM	6504	CB	GLN	C	393	50.576	96.515	14.841	1.00	68.19	C
ATOM	6505	CG	GLN	C	393	50.051	95.603	13.683	1.00	68.19	C
ATOM	6506	CD	GLN	C	393	49.662	94.150	14.073	1.00	68.19	C
ATOM	6507	OE1	GLN	C	393	49.587	93.277	13.212	1.00	68.19	C
ATOM	6508	NE2	GLN	C	393	49.406	93.905	15.349	1.00	68.19	C
ATOM	6509	C	GLN	C	393	49.024	95.970	16.707	1.00	45.63	C
ATOM	6510	O	GLN	C	393	49.827	95.367	17.415	1.00	45.63	C
ATOM	6511	N	PHE	C	394	47.720	95.704	16.700	1.00	88.56	C
ATOM	6512	CA	PHE	C	394	47.133	94.642	17.513	1.00	88.56	C
ATOM	6513	CB	PHE	C	394	47.728	94.634	18.941	1.00	62.03	C
ATOM	6514	CG	PHE	C	394	47.836	96.016	19.621	1.00	62.03	C



ATOM	6515	CD1	PHE	C	394	46.727	96.841	19.784	1.00	62.03	C
ATOM	6516	CD2	PHE	C	394	49.036	96.426	20.217	1.00	62.03	C
ATOM	6517	CE1	PHE	C	394	46.804	98.040	20.536	1.00	62.03	C
ATOM	6518	CE2	PHE	C	394	49.109	97.625	20.967	1.00	62.03	C
ATOM	6519	CZ	PHE	C	394	47.989	98.422	21.123	1.00	62.03	C
ATOM	6520	C	PHE	C	394	45.608	94.717	17.565	1.00	88.56	C
ATOM	6521	O	PHE	C	394	45.041	95.805	17.458	1.00	88.56	C
ATOM	6522	N	LYS	C	395	44.947	93.562	17.689	1.00	92.90	C
ATOM	6523	CA	LYS	C	395	43.477	93.501	17.773	1.00	92.90	C
ATOM	6524	CB	LYS	C	395	42.921	92.323	16.983	1.00	92.45	C
ATOM	6525	CG	LYS	C	395	43.378	90.975	17.521	1.00	92.45	C
ATOM	6526	CD	LYS	C	395	42.263	89.937	17.495	1.00	92.45	C
ATOM	6527	CE	LYS	C	395	41.844	89.561	16.081	1.00	92.45	C
ATOM	6528	NZ	LYS	C	395	40.691	88.615	16.087	1.00	92.45	C
ATOM	6529	C	LYS	C	395	43.150	93.275	19.229	1.00	92.90	C
ATOM	6530	O	LYS	C	395	44.019	93.448	20.079	1.00	92.90	C
ATOM	6531	N	ASP	C	396	41.919	92.880	19.541	1.00	39.25	C
ATOM	6532	CA	ASP	C	396	41.618	92.631	20.953	1.00	39.25	C
ATOM	6533	CB	ASP	C	396	41.626	93.950	21.736	1.00	83.72	C
ATOM	6534	CG	ASP	C	396	42.032	93.762	23.190	1.00	83.72	C
ATOM	6535	OD1	ASP	C	396	41.329	93.032	23.913	1.00	83.72	C
ATOM	6536	OD2	ASP	C	396	43.054	94.344	23.610	1.00	83.72	C
ATOM	6537	C	ASP	C	396	40.357	91.843	21.299	1.00	39.25	C
ATOM	6538	O	ASP	C	396	39.245	92.384	21.347	1.00	39.25	C
ATOM	6539	N	GLU	C	397	40.576	90.551	21.537	1.00	48.65	C
ATOM	6540	CA	GLU	C	397	39.564	89.576	21.942	1.00	48.65	C
ATOM	6541	CB	GLU	C	397	39.712	89.342	23.455	1.00	45.27	C
ATOM	6542	CG	GLU	C	397	38.793	88.295	24.073	1.00	45.27	C
ATOM	6543	CD	GLU	C	397	37.623	88.895	24.826	1.00	45.27	C
ATOM	6544	OE1	GLU	C	397	36.931	89.783	24.286	1.00	45.27	C
ATOM	6545	OE2	GLU	C	397	37.393	88.452	25.965	1.00	45.27	C
ATOM	6546	C	GLU	C	397	38.080	89.793	21.600	1.00	48.65	C
ATOM	6547	O	GLU	C	397	37.703	90.722	20.888	1.00	48.65	C
ATOM	6548	N	THR	C	398	37.270	88.884	22.140	1.00	100.07	C
ATOM	6549	CA	THR	C	398	35.820	88.792	21.993	1.00	100.07	C
ATOM	6550	CB	THR	C	398	35.313	87.505	22.676	1.00	56.66	C
ATOM	6551	OG1	THR	C	398	35.825	87.433	24.011	1.00	56.66	C
ATOM	6552	CG2	THR	C	398	35.764	86.296	21.912	1.00	56.66	C
ATOM	6553	C	THR	C	398	34.937	89.940	22.478	1.00	100.07	C
ATOM	6554	O	THR	C	398	34.511	90.772	21.673	1.00	100.07	C
ATOM	6555	N	ASN	C	399	34.639	89.958	23.781	1.00	47.47	C
ATOM	6556	CA	ASN	C	399	33.766	90.977	24.375	1.00	47.47	C
ATOM	6557	CB	ASN	C	399	34.267	91.388	25.747	1.00	55.14	C
ATOM	6558	CG	ASN	C	399	33.471	92.536	26.325	1.00	55.14	C
ATOM	6559	OD1	ASN	C	399	33.833	93.106	27.355	1.00	55.14	C
ATOM	6560	ND2	ASN	C	399	32.373	92.880	25.667	1.00	55.14	C
ATOM	6561	C	ASN	C	399	33.651	92.229	23.521	1.00	47.47	C
ATOM	6562	O	ASN	C	399	34.444	93.151	23.673	1.00	47.47	C
ATOM	6563	N	PRO	C	400	32.634	92.292	22.644	1.00	35.05	C
ATOM	6564	CD	PRO	C	400	31.385	91.528	22.747	1.00	36.44	C
ATOM	6565	CA	PRO	C	400	32.436	93.445	21.769	1.00	35.05	C
ATOM	6566	CB	PRO	C	400	30.950	93.363	21.414	1.00	36.44	C
ATOM	6567	CG	PRO	C	400	30.365	92.600	22.543	1.00	36.44	C
ATOM	6568	C	PRO	C	400	32.834	94.790	22.380	1.00	35.05	C
ATOM	6569	O	PRO	C	400	33.244	95.707	21.657	1.00	35.05	C
ATOM	6570	N	LEU	C	401	32.722	94.934	23.698	1.00	23.41	C
ATOM	6571	CA	LEU	C	401	33.120	96.205	24.278	1.00	23.41	C
ATOM	6572	CB	LEU	C	401	32.995	96.209	25.793	1.00	13.07	C
ATOM	6573	CG	LEU	C	401	33.447	97.565	26.326	1.00	13.07	C
ATOM	6574	CD1	LEU	C	401	32.501	98.595	25.793	1.00	13.07	C
ATOM	6575	CD2	LEU	C	401	33.451	97.609	27.834	1.00	13.07	C
ATOM	6576	C	LEU	C	401	34.574	96.312	23.911	1.00	23.41	C
ATOM	6577	O	LEU	C	401	35.009	97.279	23.292	1.00	23.41	C
ATOM	6578	N	SER	C	402	35.307	95.271	24.285	1.00	37.62	C
ATOM	6579	CA	SER	C	402	36.735	95.159	24.027	1.00	37.62	C
ATOM	6580	CB	SER	C	402	37.159	93.699	24.206	1.00	58.42	C
ATOM	6581	OG	SER	C	402	36.598	93.170	25.395	1.00	58.42	C
ATOM	6582	C	SER	C	402	37.094	95.648	22.622	1.00	37.62	C
ATOM	6583	O	SER	C	402	37.676	96.720	22.443	1.00	37.62	C
ATOM	6584	N	SER	C	403	36.746	94.856	21.623	1.00	59.01	C
ATOM	6585	CA	SER	C	403	37.027	95.232	20.256	1.00	59.01	C
ATOM	6586	CB	SER	C	403	36.280	94.302	19.304	1.00	100.07	C
ATOM	6587	OG	SER	C	403	34.880	94.375	19.519	1.00	100.07	C
ATOM	6588	C	SER	C	403	36.616	96.678	19.975	1.00	59.01	C
ATOM	6589	O	SER	C	403	36.816	97.171	18.868	1.00	59.01	C
ATOM	6590	N	LEU	C	404	36.031	97.353	20.963	1.00	29.86	C
ATOM	6591	CA	LEU	C	404	35.601	98.741	20.787	1.00	29.86	C
ATOM	6592	CB	LEU	C	404	34.121	98.884	21.167	1.00	33.94	C
ATOM	6593	CG	LEU	C	404	33.424	100.196	20.787	1.00	33.94	C
ATOM	6594	CD1	LEU	C	404	33.246	100.275	19.289	1.00	33.94	C
ATOM	6595	CD2	LEU	C	404	32.070	100.258	21.448	1.00	33.94	C
ATOM	6596	C	LEU	C	404	36.459	99.719	21.610	1.00	29.86	C
ATOM	6597	O	LEU	C	404	37.066	100.646	21.052	1.00	29.86	C
ATOM	6598	N	ARG	C	405	36.508	99.498	22.928	1.00	41.17	C



ATOM	6599	CA	ARG	C	405	37.286	100.332	23.852	1.00	41.17	C
ATOM	6600	CB	ARG	C	405	37.154	99.815	25.300	1.00	100.07	C
ATOM	6601	CG	ARG	C	405	38.471	99.334	25.985	1.00	100.07	C
ATOM	6602	CD	ARG	C	405	39.043	98.062	25.331	1.00	100.07	C
ATOM	6603	NE	ARG	C	405	40.331	97.622	25.879	1.00	100.07	C
ATOM	6604	CZ	ARG	C	405	41.087	96.663	25.335	1.00	100.07	C
ATOM	6605	NH1	ARG	C	405	40.690	96.045	24.232	1.00	100.07	C
ATOM	6606	NH2	ARG	C	405	42.242	96.317	25.890	1.00	100.07	C
ATOM	6607	C	ARG	C	405	38.740	100.293	23.451	1.00	41.17	C
ATOM	6608	O	ARG	C	405	39.570	101.003	24.008	1.00	41.17	C
ATOM	6609	N	HIS	C	406	39.042	99.447	22.479	1.00	24.77	C
ATOM	6610	CA	HIS	C	406	40.404	99.278	22.030	1.00	24.77	C
ATOM	6611	CB	HIS	C	406	40.645	97.818	21.701	1.00	25.51	C
ATOM	6612	CG	HIS	C	406	42.032	97.532	21.235	1.00	25.51	C
ATOM	6613	CD2	HIS	C	406	43.080	96.957	21.867	1.00	25.51	C
ATOM	6614	ND1	HIS	C	406	42.466	97.843	19.966	1.00	25.51	C
ATOM	6615	CE1	HIS	C	406	43.721	97.468	19.836	1.00	25.51	C
ATOM	6616	NE2	HIS	C	406	44.118	96.927	20.973	1.00	25.51	C
ATOM	6617	C	HIS	C	406	40.785	100.138	20.850	1.00	24.77	C
ATOM	6618	O	HIS	C	406	41.967	100.355	20.605	1.00	24.77	C
ATOM	6619	N	ALA	C	407	39.803	100.600	20.092	1.00	38.45	C
ATOM	6620	CA	ALA	C	407	40.115	101.471	18.970	1.00	38.45	C
ATOM	6621	CB	ALA	C	407	39.042	101.398	17.932	1.00	26.31	C
ATOM	6622	C	ALA	C	407	40.098	102.826	19.624	1.00	38.45	C
ATOM	6623	O	ALA	C	407	40.726	103.776	19.156	1.00	38.45	C
ATOM	6624	N	ARG	C	408	39.377	102.864	20.742	1.00	53.76	C
ATOM	6625	CA	ARG	C	408	39.171	104.055	21.549	1.00	53.76	C
ATOM	6626	CB	ARG	C	408	37.830	103.924	22.284	1.00	38.44	C
ATOM	6627	CG	ARG	C	408	37.253	105.223	22.770	1.00	38.44	C
ATOM	6628	CD	ARG	C	408	35.952	105.034	23.549	1.00	38.44	C
ATOM	6629	NE	ARG	C	408	35.174	106.269	23.554	1.00	38.44	C
ATOM	6630	CZ	ARG	C	408	34.881	106.954	22.447	1.00	38.44	C
ATOM	6631	NH1	ARG	C	408	35.300	106.516	21.260	1.00	38.44	C
ATOM	6632	NH2	ARG	C	408	34.181	108.081	22.516	1.00	38.44	C
ATOM	6633	C	ARG	C	408	40.308	104.335	22.543	1.00	53.76	C
ATOM	6634	O	ARG	C	408	40.254	105.321	23.276	1.00	53.76	C
ATOM	6635	N	ARG	C	409	41.324	103.471	22.588	1.00	53.14	C
ATOM	6636	CA	ARG	C	409	42.462	103.699	23.486	1.00	53.14	C
ATOM	6637	CB	ARG	C	409	43.333	102.453	23.647	1.00	56.81	C
ATOM	6638	CG	ARG	C	409	43.025	101.587	24.855	1.00	56.81	C
ATOM	6639	CD	ARG	C	409	44.033	100.433	24.942	1.00	56.81	C
ATOM	6640	NE	ARG	C	409	43.760	99.503	26.040	1.00	56.81	C
ATOM	6641	CZ	ARG	C	409	44.543	98.477	26.377	1.00	56.81	C
ATOM	6642	NH1	ARG	C	409	45.671	98.233	25.710	1.00	56.81	C
ATOM	6643	NH2	ARG	C	409	44.179	97.679	27.373	1.00	56.81	C
ATOM	6644	C	ARG	C	409	43.294	104.782	22.838	1.00	53.14	C
ATOM	6645	O	ARG	C	409	43.048	105.153	21.689	1.00	53.14	C
ATOM	6646	N	ILE	C	410	44.298	105.269	23.553	1.00	27.33	C
ATOM	6647	CA	ILE	C	410	45.130	106.344	23.024	1.00	27.33	C
ATOM	6648	CB	ILE	C	410	44.672	107.713	23.598	1.00	41.58	C
ATOM	6649	CG2	ILE	C	410	45.571	108.843	23.096	1.00	41.58	C
ATOM	6650	CG1	ILE	C	410	43.220	107.970	23.202	1.00	41.58	C
ATOM	6651	CD	ILE	C	410	42.743	109.335	23.544	1.00	41.58	C
ATOM	6652	C	ILE	C	410	46.597	106.159	23.350	1.00	27.33	C
ATOM	6653	O	ILE	C	410	47.265	105.263	22.832	1.00	27.33	C
ATOM	6654	N	SER	C	411	47.079	107.058	24.199	1.00	36.52	C
ATOM	6655	CA	SER	C	411	48.443	107.066	24.691	1.00	36.52	C
ATOM	6656	CB	SER	C	411	48.400	106.733	26.185	1.00	62.16	C
ATOM	6657	OG	SER	C	411	47.111	106.239	26.551	1.00	62.16	C
ATOM	6658	C	SER	C	411	49.383	106.110	23.959	1.00	36.52	C
ATOM	6659	O	SER	C	411	49.423	106.074	22.732	1.00	36.52	C
ATOM	6660	N	ALA	C	412	50.137	105.348	24.743	1.00	64.92	C
ATOM	6661	CA	ALA	C	412	51.079	104.367	24.227	1.00	64.92	C
ATOM	6662	CB	ALA	C	412	50.440	103.585	23.073	1.00	18.77	C
ATOM	6663	C	ALA	C	412	52.397	104.989	23.780	1.00	64.92	C
ATOM	6664	O	ALA	C	412	52.438	106.139	23.356	1.00	64.92	C
ATOM	6665	N	ALA	C	413	53.472	104.215	23.888	1.00	57.15	C
ATOM	6666	CA	ALA	C	413	54.794	104.668	23.478	1.00	57.15	C
ATOM	6667	CB	ALA	C	413	55.835	103.618	23.849	1.00	81.91	C
ATOM	6668	C	ALA	C	413	54.789	104.895	21.966	1.00	57.15	C
ATOM	6669	O	ALA	C	413	54.967	103.955	21.195	1.00	57.15	C
ATOM	6670	N	ALA	C	414	54.597	106.145	21.552	1.00	100.07	C
ATOM	6671	CA	ALA	C	414	54.538	106.498	20.131	1.00	100.07	C
ATOM	6672	CB	ALA	C	414	54.007	107.936	19.969	1.00	67.08	C
ATOM	6673	C	ALA	C	414	55.854	106.348	19.372	1.00	100.07	C
ATOM	6674	O	ALA	C	414	56.673	105.470	19.669	1.00	100.07	C
ATOM	6675	N	ALA	C	415	56.035	107.211	18.376	1.00	100.07	C
ATOM	6676	CA	ALA	C	415	57.236	107.199	17.560	1.00	100.07	C
ATOM	6677	CB	ALA	C	415	56.975	107.914	16.240	1.00	100.07	C
ATOM	6678	C	ALA	C	415	58.383	107.868	18.312	1.00	100.07	C
ATOM	6679	O	ALA	C	415	58.186	108.439	19.388	1.00	100.07	C
ATOM	6680	N	ALA	C	416	59.579	107.791	17.731	1.00	100.07	C
ATOM	6681	CA	ALA	C	416	60.785	108.364	18.326	1.00	100.07	C
ATOM	6682	CB	ALA	C	416	61.988	108.113	17.413	1.00	91.00	C



ATOM	6683	C	ALA	C	416	60.677	109.855	18.660	1.00100.07	C
ATOM	6684	O	ALA	C	416	59.752	110.269	19.370	1.00100.07	C
ATOM	6685	N	ALA	C	417	61.621	110.650	18.147	1.00100.07	C
ATOM	6686	CA	ALA	C	417	61.670	112.095	18.405	1.00100.07	C
ATOM	6687	CB	ALA	C	417	60.355	112.768	17.983	1.00 51.89	C
ATOM	6688	C	ALA	C	417	61.930	112.304	19.906	1.00100.07	C
ATOM	6689	O	ALA	C	417	63.084	112.323	20.345	1.00100.07	C
ATOM	6690	N	ALA	C	418	60.863	112.441	20.693	1.00100.07	C
ATOM	6691	CA	ALA	C	418	60.987	112.618	22.144	1.00100.07	C
ATOM	6692	CB	ALA	C	418	61.465	114.040	22.477	1.00 65.97	C
ATOM	6693	C	ALA	C	418	59.649	112.337	22.833	1.00100.07	C
ATOM	6694	O	ALA	C	418	59.244	113.068	23.742	1.00100.07	C
ATOM	6695	N	ALA	C	419	58.981	111.262	22.400	1.00100.07	C
ATOM	6696	CA	ALA	C	419	57.677	110.872	22.937	1.00100.07	C
ATOM	6697	CB	ALA	C	419	56.589	111.092	21.861	1.00 90.38	C
ATOM	6698	C	ALA	C	419	57.578	109.445	23.485	1.00100.07	C
ATOM	6699	O	ALA	C	419	57.508	108.477	22.722	1.00100.07	C
ATOM	6700	N	ALA	C	420	57.572	109.344	24.814	1.00 96.61	C
ATOM	6701	CA	ALA	C	420	57.423	108.083	25.534	1.00 96.61	C
ATOM	6702	CB	ALA	C	420	56.034	107.527	25.260	1.00100.07	C
ATOM	6703	C	ALA	C	420	58.434	106.959	25.397	1.00 96.61	C
ATOM	6704	O	ALA	C	420	59.294	106.954	24.518	1.00 96.61	C
ATOM	6705	N	GLU	C	421	58.266	105.990	26.291	1.00 64.31	C
ATOM	6706	CA	GLU	C	421	59.073	104.785	26.406	1.00 64.31	C
ATOM	6707	CB	GLU	C	421	60.558	105.115	26.425	1.00100.07	C
ATOM	6708	CG	GLU	C	421	61.351	104.126	27.269	1.00100.07	C
ATOM	6709	CD	GLU	C	421	62.822	104.450	27.322	1.00100.07	C
ATOM	6710	OE1	GLU	C	421	63.162	105.631	27.559	1.00100.07	C
ATOM	6711	OE2	GLU	C	421	63.636	103.519	27.131	1.00100.07	C
ATOM	6712	C	GLU	C	421	58.693	104.147	27.744	1.00 64.31	C
ATOM	6713	O	GLU	C	421	58.271	104.844	28.657	1.00 64.31	C
ATOM	6714	N	ARG	C	422	58.854	102.837	27.873	1.00 72.83	C
ATOM	6715	CA	ARG	C	422	58.494	102.138	29.104	1.00 72.83	C
ATOM	6716	CB	ARG	C	422	58.571	100.615	28.891	1.00100.07	C
ATOM	6717	CG	ARG	C	422	57.941	100.131	27.571	1.00100.07	C
ATOM	6718	CD	ARG	C	422	57.685	98.612	27.524	1.00100.07	C
ATOM	6719	NE	ARG	C	422	57.274	98.179	26.183	1.00100.07	C
ATOM	6720	CZ	ARG	C	422	56.744	96.992	25.882	1.00100.07	C
ATOM	6721	NH1	ARG	C	422	56.536	96.076	26.824	1.00100.07	C
ATOM	6722	NH2	ARG	C	422	56.428	96.714	24.623	1.00100.07	C
ATOM	6723	C	ARG	C	422	59.370	102.531	30.297	1.00 72.83	C
ATOM	6724	O	ARG	C	422	59.663	101.696	31.155	1.00 72.83	C
ATOM	6725	N	ALA	C	423	59.760	103.809	30.334	1.00 99.57	C
ATOM	6726	CA	ALA	C	423	60.592	104.402	31.396	1.00 99.57	C
ATOM	6727	CB	ALA	C	423	61.556	103.361	31.982	1.00 72.35	C
ATOM	6728	C	ALA	C	423	61.388	105.585	30.839	1.00 99.57	C
ATOM	6729	O	ALA	C	423	62.496	105.865	31.295	1.00 99.57	C
ATOM	6730	N	GLY	C	424	60.814	106.285	29.864	1.00100.07	C
ATOM	6731	CA	GLY	C	424	61.507	107.400	29.233	1.00100.07	C
ATOM	6732	C	GLY	C	424	62.001	108.507	30.145	1.00100.07	C
ATOM	6733	O	GLY	C	424	61.836	108.428	31.367	1.00100.07	C
ATOM	6734	N	ALA	C	425	62.611	109.538	29.550	1.00100.07	C
ATOM	6735	CA	ALA	C	425	63.127	110.692	30.289	1.00100.07	C
ATOM	6736	CB	ALA	C	425	64.064	111.531	29.398	1.00 58.72	C
ATOM	6737	C	ALA	C	425	61.935	111.533	30.775	1.00100.07	C
ATOM	6738	O	ALA	C	425	62.025	112.752	30.940	1.00100.07	C
ATOM	6739	N	ALA	C	426	60.812	110.848	30.987	1.00100.07	C
ATOM	6740	CA	ALA	C	426	59.570	111.435	31.470	1.00100.07	C
ATOM	6741	CB	ALA	C	426	58.880	112.230	30.363	1.00 94.56	C
ATOM	6742	C	ALA	C	426	58.675	110.277	31.932	1.00100.07	C
ATOM	6743	O	ALA	C	426	58.220	109.466	31.122	1.00100.07	C
ATOM	6744	N	VAL	C	427	58.469	110.200	33.244	1.00100.07	C
ATOM	6745	CA	VAL	C	427	57.641	109.182	33.897	1.00100.07	C
ATOM	6746	CB	VAL	C	427	58.395	107.831	34.048	1.00100.07	C
ATOM	6747	CG1	VAL	C	427	57.554	106.843	34.848	1.00100.07	C
ATOM	6748	CG2	VAL	C	427	58.697	107.252	32.669	1.00100.07	C
ATOM	6749	C	VAL	C	427	57.275	109.756	35.280	1.00100.07	C
ATOM	6750	O	VAL	C	427	57.783	110.804	35.667	1.00100.07	C
ATOM	6751	N	ALA	C	428	56.404	109.065	36.012	1.00 70.42	C
ATOM	6752	CA	ALA	C	428	55.921	109.511	37.331	1.00 70.42	C
ATOM	6753	CB	ALA	C	428	57.075	109.655	38.331	1.00 40.60	C
ATOM	6754	C	ALA	C	428	55.180	110.835	37.217	1.00 70.42	C
ATOM	6755	O	ALA	C	428	54.017	110.949	37.599	1.00 70.42	C
ATOM	6756	N	ASP	C	429	55.870	111.829	36.670	1.00 98.97	C
ATOM	6757	CA	ASP	C	429	55.327	113.167	36.493	1.00 98.97	C
ATOM	6758	CB	ASP	C	429	56.434	114.101	36.011	1.00100.07	C
ATOM	6759	CG	ASP	C	429	57.818	113.630	36.431	1.00100.07	C
ATOM	6760	OD1	ASP	C	429	58.078	113.505	37.647	1.00100.07	C
ATOM	6761	OD2	ASP	C	429	58.642	113.385	35.527	1.00100.07	C
ATOM	6762	C	ASP	C	429	54.204	113.136	35.459	1.00 98.97	C
ATOM	6763	O	ASP	C	429	53.097	113.621	35.700	1.00 98.97	C
ATOM	6764	N	VAL	C	430	54.517	112.564	34.300	1.00 99.88	C
ATOM	6765	CA	VAL	C	430	53.582	112.443	33.191	1.00 99.88	C
ATOM	6766	CB	VAL	C	430	54.252	111.700	32.009	1.00100.07	C



ATOM	6767	CG1	VAL	C	430	53.323	111.669	30.818	1.00100.07	C
ATOM	6768	CG2	VAL	C	430	55.559	112.379	31.646	1.00100.07	C
ATOM	6769	C	VAL	C	430	52.303	111.699	33.586	1.00 99.88	C
ATOM	6770	O	VAL	C	430	51.216	112.292	33.634	1.00 99.88	C
ATOM	6771	N	HIS	C	431	52.454	110.401	33.861	1.00100.07	C
ATOM	6772	CA	HIS	C	431	51.354	109.514	34.247	1.00100.07	C
ATOM	6773	CB	HIS	C	431	51.844	108.486	35.282	1.00 87.20	C
ATOM	6774	CG	HIS	C	431	52.949	107.595	34.794	1.00 92.95	C
ATOM	6775	CD2	HIS	C	431	54.226	107.443	35.219	1.00 92.95	C
ATOM	6776	ND1	HIS	C	431	52.777	106.671	33.783	1.00 92.95	C
ATOM	6777	CE1	HIS	C	431	53.898	105.987	33.615	1.00 92.95	C
ATOM	6778	NE2	HIS	C	431	54.792	106.437	34.475	1.00 92.95	C
ATOM	6779	C	HIS	C	431	50.116	110.239	34.801	1.00100.07	C
ATOM	6780	O	HIS	C	431	48.986	109.979	34.373	1.00100.07	C
ATOM	6781	N	ALA	C	432	50.335	111.163	35.732	1.00 61.37	C
ATOM	6782	CA	ALA	C	432	49.251	111.919	36.361	1.00 61.37	C
ATOM	6783	CB	ALA	C	432	49.822	113.072	37.203	1.00 46.95	C
ATOM	6784	C	ALA	C	432	48.207	112.457	35.392	1.00 61.37	C
ATOM	6785	O	ALA	C	432	48.404	112.472	34.183	1.00 61.37	C
ATOM	6786	N	THR	C	433	47.085	112.878	35.961	1.00 38.18	C
ATOM	6787	CA	THR	C	433	45.957	113.422	35.223	1.00 38.18	C
ATOM	6788	CB	THR	C	433	44.633	112.950	35.844	1.00100.07	C
ATOM	6789	OG1	THR	C	433	44.466	111.549	35.615	1.00 99.58	C
ATOM	6790	CG2	THR	C	433	43.475	113.708	35.239	1.00 99.58	C
ATOM	6791	C	THR	C	433	45.934	114.942	35.267	1.00 38.18	C
ATOM	6792	O	THR	C	433	45.799	115.511	36.341	1.00 38.18	C
ATOM	6793	N	HIS	C	434	46.036	115.599	34.115	1.00 47.33	C
ATOM	6794	CA	HIS	C	434	45.987	117.060	34.063	1.00 47.33	C
ATOM	6795	CB	HIS	C	434	46.633	117.561	32.780	1.00 82.00	C
ATOM	6796	CG	HIS	C	434	46.170	116.837	31.555	0.00 35.70	C
ATOM	6797	CD2	HIS	C	434	45.518	117.270	30.452	0.00 35.70	C
ATOM	6798	ND1	HIS	C	434	46.373	115.484	31.372	0.00 35.70	C
ATOM	6799	CE1	HIS	C	434	45.867	115.121	30.205	0.00 35.70	C
ATOM	6800	NE2	HIS	C	434	45.344	116.188	29.628	0.00 35.70	C
ATOM	6801	C	HIS	C	434	44.527	117.476	34.095	1.00 47.33	C
ATOM	6802	O	HIS	C	434	43.638	116.653	33.868	1.00 47.33	C
ATOM	6803	N	TYR	C	435	44.262	118.744	34.373	1.00 99.57	C
ATOM	6804	CA	TYR	C	435	42.878	119.177	34.416	1.00 99.57	C
ATOM	6805	CB	TYR	C	435	42.759	120.593	34.975	1.00 14.53	C
ATOM	6806	CG	TYR	C	435	43.626	121.605	34.293	0.00 5.07	C
ATOM	6807	CD1	TYR	C	435	43.315	122.059	33.017	0.00 5.07	C
ATOM	6808	CE1	TYR	C	435	44.090	123.011	32.394	0.00 5.07	C
ATOM	6809	CD2	TYR	C	435	44.745	122.129	34.931	0.00 5.07	C
ATOM	6810	CE2	TYR	C	435	45.532	123.084	34.318	0.00 5.07	C
ATOM	6811	CZ	TYR	C	435	45.199	123.524	33.050	0.00 5.07	C
ATOM	6812	OH	TYR	C	435	45.974	124.485	32.444	0.00 5.07	C
ATOM	6813	C	TYR	C	435	42.235	119.088	33.044	1.00 99.57	C
ATOM	6814	O	TYR	C	435	41.220	119.722	32.785	1.00 99.57	C
ATOM	6815	N	GLY	C	436	42.857	118.315	32.162	1.00 98.61	C
ATOM	6816	CA	GLY	C	436	42.294	118.122	30.848	1.00 98.61	C
ATOM	6817	C	GLY	C	436	41.415	116.892	30.959	1.00 98.61	C
ATOM	6818	O	GLY	C	436	41.855	115.773	30.711	1.00 98.61	C
ATOM	6819	N	ARG	C	437	40.179	117.091	31.394	1.00 99.71	C
ATOM	6820	CA	ARG	C	437	39.252	115.988	31.507	1.00 99.71	C
ATOM	6821	CB	ARG	C	437	38.003	116.400	32.273	1.00100.07	C
ATOM	6822	CG	ARG	C	437	37.352	117.659	31.791	1.00100.07	C
ATOM	6823	CD	ARG	C	437	36.442	118.215	32.869	1.00100.07	C
ATOM	6824	NE	ARG	C	437	36.153	119.628	32.651	1.00100.07	C
ATOM	6825	CZ	ARG	C	437	35.708	120.458	33.591	1.00100.07	C
ATOM	6826	NH1	ARG	C	437	35.495	120.013	34.824	1.00100.07	C
ATOM	6827	NH2	ARG	C	437	35.482	121.738	33.301	1.00100.07	C
ATOM	6828	C	ARG	C	437	38.911	115.619	30.087	1.00 99.71	C
ATOM	6829	O	ARG	C	437	39.340	116.291	29.153	1.00 99.71	C
ATOM	6830	N	ILE	C	438	38.117	114.563	29.944	1.00100.07	C
ATOM	6831	CA	ILE	C	438	37.703	114.014	28.646	1.00100.07	C
ATOM	6832	CB	ILE	C	438	37.950	114.995	27.490	1.00 29.55	C
ATOM	6833	CG2	ILE	C	438	38.455	114.232	26.265	1.00 29.55	C
ATOM	6834	CG1	ILE	C	438	36.694	115.841	27.283	1.00 29.55	C
ATOM	6835	CD	ILE	C	438	35.411	115.015	27.267	1.00 29.55	C
ATOM	6836	C	ILE	C	438	38.524	112.745	28.413	1.00100.07	C
ATOM	6837	O	ILE	C	438	37.996	111.656	28.146	1.00100.07	C
ATOM	6838	N	CYS	C	439	39.834	112.902	28.468	1.00 91.77	C
ATOM	6839	CA	CYS	C	439	40.686	111.749	28.358	1.00 91.77	C
ATOM	6840	CB	CYS	C	439	42.151	112.179	28.355	1.00 75.81	C
ATOM	6841	SG	CYS	C	439	43.343	110.833	28.162	1.00 75.81	C
ATOM	6842	C	CYS	C	439	40.291	111.102	29.693	1.00 91.77	C
ATOM	6843	O	CYS	C	439	40.270	111.762	30.726	1.00 91.77	C
ATOM	6844	N	PRO	C	440	39.985	109.808	29.687	1.00 40.33	C
ATOM	6845	CD	PRO	C	440	40.706	108.921	28.767	1.00100.07	C
ATOM	6846	CA	PRO	C	440	39.577	109.060	30.878	1.00 40.33	C
ATOM	6847	CB	PRO	C	440	39.945	107.628	30.523	1.00100.07	C
ATOM	6848	CG	PRO	C	440	41.175	107.820	29.692	1.00100.07	C
ATOM	6849	C	PRO	C	440	40.251	109.507	32.155	1.00 40.33	C
ATOM	6850	O	PRO	C	440	41.402	109.953	32.160	1.00 40.33	C



ATOM	6851	N	VAL	C	441	39.530	109.369	33.250	1.00	52.92	C
ATOM	6852	CA	VAL	C	441	40.059	109.761	34.532	1.00	52.92	C
ATOM	6853	CB	VAL	C	441	39.084	110.718	35.231	1.00	44.78	C
ATOM	6854	CG1	VAL	C	441	38.818	111.920	34.349	1.00	44.78	C
ATOM	6855	CG2	VAL	C	441	37.776	110.009	35.504	1.00	44.78	C
ATOM	6856	C	VAL	C	441	40.253	108.509	35.378	1.00	52.92	C
ATOM	6857	O	VAL	C	441	41.299	108.337	36.015	1.00	52.92	C
ATOM	6858	N	ALA	C	442	39.254	107.622	35.351	1.00	40.09	C
ATOM	6859	CA	ALA	C	442	39.275	106.388	36.135	1.00	40.09	C
ATOM	6860	CB	ALA	C	442	37.903	106.147	36.750	1.00	27.54	C
ATOM	6861	C	ALA	C	442	39.691	105.152	35.365	1.00	40.09	C
ATOM	6862	O	ALA	C	442	39.912	104.102	35.965	1.00	40.09	C
ATOM	6863	N	THR	C	443	39.825	105.274	34.048	1.00	55.15	C
ATOM	6864	CA	THR	C	443	40.164	104.107	33.234	1.00	55.15	C
ATOM	6865	CB	THR	C	443	39.019	103.828	32.245	1.00	100.07	C
ATOM	6866	OG1	THR	C	443	37.771	104.218	32.847	1.00	100.07	C
ATOM	6867	CG2	THR	C	443	38.974	102.334	31.903	1.00	100.07	C
ATOM	6868	C	THR	C	443	41.503	104.025	32.473	1.00	55.15	C
ATOM	6869	O	THR	C	443	41.563	104.177	31.249	1.00	55.15	C
ATOM	6870	N	PRO	C	444	42.595	103.763	33.202	1.00	92.64	C
ATOM	6871	CD	PRO	C	444	42.690	103.710	34.670	1.00	100.07	C
ATOM	6872	CA	PRO	C	444	43.923	103.646	32.616	1.00	92.64	C
ATOM	6873	CB	PRO	C	444	44.812	104.177	33.712	1.00	100.07	C
ATOM	6874	CG	PRO	C	444	44.193	103.508	34.892	1.00	100.07	C
ATOM	6875	C	PRO	C	444	44.125	102.159	32.427	1.00	92.64	C
ATOM	6876	O	PRO	C	444	43.165	101.403	32.308	1.00	92.64	C
ATOM	6877	N	GLU	C	445	45.375	101.732	32.444	1.00	35.24	C
ATOM	6878	CA	GLU	C	445	45.664	100.334	32.264	1.00	35.24	C
ATOM	6879	CB	GLU	C	445	46.597	100.128	31.076	1.00	100.07	C
ATOM	6880	CG	GLU	C	445	45.882	99.957	29.747	1.00	100.07	C
ATOM	6881	CD	GLU	C	445	44.960	98.743	29.725	1.00	100.07	C
ATOM	6882	OE1	GLU	C	445	43.792	98.861	30.155	1.00	100.07	C
ATOM	6883	OE2	GLU	C	445	45.410	97.663	29.285	1.00	100.07	C
ATOM	6884	C	GLU	C	445	46.297	99.809	33.510	1.00	35.24	C
ATOM	6885	O	GLU	C	445	46.975	98.796	33.477	1.00	35.24	C
ATOM	6886	N	GLY	C	446	46.077	100.519	34.606	1.00	38.20	C
ATOM	6887	CA	GLY	C	446	46.613	100.127	35.903	1.00	38.20	C
ATOM	6888	C	GLY	C	446	47.905	99.337	36.014	1.00	38.20	C
ATOM	6889	O	GLY	C	446	48.008	98.232	35.504	1.00	38.20	C
ATOM	6890	N	ALA	C	447	48.882	99.904	36.714	1.00	49.32	C
ATOM	6891	CA	ALA	C	447	50.190	99.278	36.927	1.00	49.32	C
ATOM	6892	CB	ALA	C	447	50.063	97.756	36.993	1.00	91.95	C
ATOM	6893	C	ALA	C	447	51.219	99.668	35.873	1.00	49.32	C
ATOM	6894	O	ALA	C	447	50.939	100.464	34.974	1.00	49.32	C
ATOM	6895	N	ASN	C	448	52.420	99.118	36.013	1.00	90.35	C
ATOM	6896	CA	ASN	C	448	53.511	99.393	35.091	1.00	90.35	C
ATOM	6897	CB	ASN	C	448	54.442	98.183	35.031	1.00	100.07	C
ATOM	6898	CG	ASN	C	448	53.701	96.898	34.709	1.00	100.07	C
ATOM	6899	OD1	ASN	C	448	52.552	96.712	35.119	1.00	100.07	C
ATOM	6900	ND2	ASN	C	448	54.360	95.995	33.984	1.00	100.07	C
ATOM	6901	C	ASN	C	448	52.970	99.709	33.708	1.00	90.35	C
ATOM	6902	O	ASN	C	448	52.214	98.925	33.139	1.00	90.35	C
ATOM	6903	N	ILE	C	449	53.337	100.875	33.186	1.00	36.73	C
ATOM	6904	CA	ILE	C	449	52.894	101.305	31.862	1.00	36.73	C
ATOM	6905	CB	ILE	C	449	53.504	100.414	30.749	1.00	100.01	C
ATOM	6906	CG2	ILE	C	449	52.756	100.599	29.430	1.00	100.01	C
ATOM	6907	CG1	ILE	C	449	54.997	100.737	30.609	1.00	100.01	C
ATOM	6908	CD	ILE	C	449	55.311	102.230	30.461	1.00	100.01	C
ATOM	6909	C	ILE	C	449	51.390	101.316	31.731	1.00	36.73	C
ATOM	6910	O	ILE	C	449	50.853	101.883	30.796	1.00	36.73	C
ATOM	6911	N	GLY	C	450	50.704	100.686	32.667	1.00	100.07	C
ATOM	6912	CA	GLY	C	450	49.263	100.689	32.607	1.00	100.07	C
ATOM	6913	C	GLY	C	450	48.840	102.093	32.968	1.00	100.07	C
ATOM	6914	O	GLY	C	450	47.670	102.353	33.250	1.00	100.07	C
ATOM	6915	N	LEU	C	451	49.812	103.001	32.955	1.00	27.08	C
ATOM	6916	CA	LEU	C	451	49.562	104.393	33.296	1.00	27.08	C
ATOM	6917	CB	LEU	C	451	50.470	104.744	34.450	1.00	19.71	C
ATOM	6918	CG	LEU	C	451	50.422	103.577	35.424	1.00	19.71	C
ATOM	6919	CD1	LEU	C	451	51.690	103.552	36.253	1.00	19.71	C
ATOM	6920	CD2	LEU	C	451	49.176	103.691	36.298	1.00	19.71	C
ATOM	6921	C	LEU	C	451	49.816	105.328	32.109	1.00	27.08	C
ATOM	6922	O	LEU	C	451	49.077	106.287	31.853	1.00	27.08	C
ATOM	6923	N	ILE	C	452	50.895	105.038	31.405	1.00	36.86	C
ATOM	6924	CA	ILE	C	452	51.296	105.792	30.239	1.00	36.86	C
ATOM	6925	CB	ILE	C	452	52.493	105.071	29.542	1.00	22.11	C
ATOM	6926	CG2	ILE	C	452	52.370	105.206	28.045	1.00	22.11	C
ATOM	6927	CG1	ILE	C	452	53.844	105.556	30.105	1.00	22.11	C
ATOM	6928	CD	ILE	C	452	54.210	106.997	29.790	1.00	22.11	C
ATOM	6929	C	ILE	C	452	50.093	105.843	29.303	1.00	36.86	C
ATOM	6930	O	ILE	C	452	49.896	106.821	28.593	1.00	36.86	C
ATOM	6931	N	THR	C	453	49.279	104.789	29.341	1.00	54.44	C
ATOM	6932	CA	THR	C	453	48.100	104.651	28.485	1.00	54.44	C
ATOM	6933	CB	THR	C	453	48.107	103.306	27.814	1.00	17.58	C
ATOM	6934	OG1	THR	C	453	48.664	103.451	26.507	1.00	17.58	C







ATOM	7019	CA	ALA	C	468	40.130	115.828	21.721	1.00	62.76	C
ATOM	7020	CB	ALA	C	468	40.641	115.345	23.074	1.00	5.07	C
ATOM	7021	C	ALA	C	468	38.944	116.783	21.878	1.00	62.76	C
ATOM	7022	O	ALA	C	468	37.877	116.520	21.335	1.00	62.76	C
ATOM	7023	N	THR	C	469	39.121	117.870	22.624	1.00	53.13	C
ATOM	7024	CA	THR	C	469	38.073	118.887	22.818	1.00	53.13	C
ATOM	7025	CB	THR	C	469	38.116	119.904	21.648	1.00	41.18	C
ATOM	7026	OG1	THR	C	469	37.438	119.380	20.501	1.00	41.18	C
ATOM	7027	CG2	THR	C	469	39.539	120.150	21.251	1.00	41.18	C
ATOM	7028	C	THR	C	469	36.608	118.427	23.009	1.00	53.13	C
ATOM	7029	O	THR	C	469	35.883	118.210	22.044	1.00	53.13	C
ATOM	7030	N	PRO	C	470	36.150	118.307	24.266	1.00	61.21	C
ATOM	7031	CD	PRO	C	470	36.879	118.665	25.492	1.00	86.46	C
ATOM	7032	CA	PRO	C	470	34.780	117.881	24.586	1.00	61.21	C
ATOM	7033	CB	PRO	C	470	34.792	117.798	26.097	1.00	86.46	C
ATOM	7034	CG	PRO	C	470	35.756	118.877	26.464	1.00	86.46	C
ATOM	7035	C	PRO	C	470	33.738	118.876	24.095	1.00	61.21	C
ATOM	7036	O	PRO	C	470	34.092	119.911	23.528	1.00	61.21	C
ATOM	7037	N	TYR	C	471	32.458	118.568	24.314	1.00	26.59	C
ATOM	7038	CA	TYR	C	471	31.387	119.458	23.878	1.00	26.59	C
ATOM	7039	CB	TYR	C	471	30.331	118.715	23.047	1.00	99.64	C
ATOM	7040	CG	TYR	C	471	30.826	117.874	21.878	1.00	99.64	C
ATOM	7041	CD1	TYR	C	471	29.916	117.176	21.083	1.00	99.64	C
ATOM	7042	CE1	TYR	C	471	30.341	116.342	20.068	1.00	99.64	C
ATOM	7043	CD2	TYR	C	471	32.188	117.715	21.609	1.00	99.64	C
ATOM	7044	CE2	TYR	C	471	32.625	116.878	20.591	1.00	99.64	C
ATOM	7045	CZ	TYR	C	471	31.694	116.192	19.829	1.00	99.64	C
ATOM	7046	OH	TYR	C	471	32.107	115.328	18.843	1.00	99.64	C
ATOM	7047	C	TYR	C	471	30.716	119.983	25.122	1.00	26.59	C
ATOM	7048	O	TYR	C	471	30.468	119.212	26.047	1.00	26.59	C
ATOM	7049	N	ARG	C	472	30.422	121.282	25.152	1.00	42.17	C
ATOM	7050	CA	ARG	C	472	29.752	121.883	26.310	1.00	42.17	C
ATOM	7051	CB	ARG	C	472	30.780	122.539	27.238	1.00	67.73	C
ATOM	7052	CG	ARG	C	472	30.962	121.786	28.542	1.00	67.73	C
ATOM	7053	CD	ARG	C	472	32.154	122.279	29.336	1.00	67.73	C
ATOM	7054	NE	ARG	C	472	33.422	122.064	28.644	1.00	67.73	C
ATOM	7055	CZ	ARG	C	472	34.582	121.856	29.263	1.00	67.73	C
ATOM	7056	NH1	ARG	C	472	34.637	121.831	30.589	1.00	67.73	C
ATOM	7057	NH2	ARG	C	472	35.691	121.675	28.559	1.00	67.73	C
ATOM	7058	C	ARG	C	472	28.644	122.886	25.957	1.00	42.17	C
ATOM	7059	O	ARG	C	472	28.883	123.924	25.340	1.00	42.17	C
ATOM	7060	N	ALA	C	473	27.423	122.558	26.361	1.00	100.07	C
ATOM	7061	CA	ALA	C	473	26.269	123.407	26.093	1.00	100.07	C
ATOM	7062	CB	ALA	C	473	25.046	122.874	26.869	1.00	11.39	C
ATOM	7063	C	ALA	C	473	26.561	124.850	26.499	1.00	100.07	C
ATOM	7064	O	ALA	C	473	27.310	125.078	27.448	1.00	100.07	C
ATOM	7065	N	VAL	C	474	25.992	125.817	25.773	1.00	45.41	C
ATOM	7066	CA	VAL	C	474	26.161	127.245	26.100	1.00	45.41	C
ATOM	7067	CB	VAL	C	474	26.936	127.995	24.983	1.00	99.87	C
ATOM	7068	CG1	VAL	C	474	27.150	129.452	25.373	1.00	99.87	C
ATOM	7069	CG2	VAL	C	474	28.286	127.329	24.756	1.00	99.87	C
ATOM	7070	C	VAL	C	474	24.768	127.882	26.297	1.00	45.41	C
ATOM	7071	O	VAL	C	474	24.343	128.737	25.520	1.00	45.41	C
ATOM	7072	N	ALA	C	475	24.080	127.454	27.358	1.00	55.11	C
ATOM	7073	CA	ALA	C	475	22.712	127.889	27.682	1.00	55.11	C
ATOM	7074	CB	ALA	C	475	22.716	129.277	28.250	1.00	74.41	C
ATOM	7075	C	ALA	C	475	21.749	127.797	26.482	1.00	55.11	C
ATOM	7076	O	ALA	C	475	21.796	128.597	25.538	1.00	55.11	C
ATOM	7077	N	ALA	C	476	20.882	126.791	26.537	1.00	53.15	C
ATOM	7078	CA	ALA	C	476	19.914	126.534	25.487	1.00	53.15	C
ATOM	7079	CB	ALA	C	476	18.952	127.699	25.385	1.00	25.83	C
ATOM	7080	C	ALA	C	476	20.579	126.276	24.132	1.00	53.15	C
ATOM	7081	O	ALA	C	476	19.952	125.744	23.214	1.00	53.15	C
ATOM	7082	N	GLY	C	477	21.850	126.643	24.016	1.00	63.12	C
ATOM	7083	CA	GLY	C	477	22.572	126.465	22.768	1.00	63.12	C
ATOM	7084	C	GLY	C	477	22.612	125.063	22.193	1.00	63.12	C
ATOM	7085	O	GLY	C	477	21.673	124.280	22.332	1.00	63.12	C
ATOM	7086	N	ALA	C	478	23.718	124.753	21.526	1.00	76.01	C
ATOM	7087	CA	ALA	C	478	23.903	123.444	20.918	1.00	76.01	C
ATOM	7088	CB	ALA	C	478	24.228	123.591	19.449	1.00	100.07	C
ATOM	7089	C	ALA	C	478	25.016	122.680	21.620	1.00	76.01	C
ATOM	7090	O	ALA	C	478	24.746	121.757	22.390	1.00	76.01	C
ATOM	7091	N	ALA	C	479	26.267	123.055	21.366	1.00	52.97	C
ATOM	7092	CA	ALA	C	479	27.363	122.347	22.017	1.00	52.97	C
ATOM	7093	CB	ALA	C	479	27.393	120.899	21.529	1.00	14.76	C
ATOM	7094	C	ALA	C	479	28.761	122.959	21.914	1.00	52.97	C
ATOM	7095	O	ALA	C	479	29.452	123.083	22.924	1.00	52.97	C
ATOM	7096	N	ALA	C	480	29.185	123.329	20.710	1.00	64.02	C
ATOM	7097	CA	ALA	C	480	30.516	123.907	20.523	1.00	64.02	C
ATOM	7098	CB	ALA	C	480	30.622	125.259	21.263	1.00	25.96	C
ATOM	7099	C	ALA	C	480	31.579	122.939	21.043	1.00	64.02	C
ATOM	7100	O	ALA	C	480	31.650	122.662	22.242	1.00	64.02	C
ATOM	7101	N	ALA	C	481	32.405	122.415	20.147	1.00	51.87	C
ATOM	7102	CA	ALA	C	481	33.447	121.485	20.567	1.00	51.87	C



ATOM	7103	CB	ALA	C	481	33.818	120.556	19.419	1.00	88.09	C
ATOM	7104	C	ALA	C	481	34.670	122.263	21.038	1.00	51.87	C
ATOM	7105	O	ALA	C	481	35.693	122.326	20.345	1.00	51.87	C
ATOM	7106	N	ALA	C	482	34.557	122.843	22.230	1.00	70.79	C
ATOM	7107	CA	ALA	C	482	35.626	123.651	22.811	1.00	70.79	C
ATOM	7108	CB	ALA	C	482	35.196	124.184	24.189	1.00	84.75	C
ATOM	7109	C	ALA	C	482	36.975	122.951	22.921	1.00	70.79	C
ATOM	7110	O	ALA	C	482	37.091	121.889	23.532	1.00	70.79	C
ATOM	7111	N	ALA	C	483	37.990	123.562	22.313	1.00	39.85	C
ATOM	7112	CA	ALA	C	483	39.346	123.041	22.359	1.00	39.85	C
ATOM	7113	CB	ALA	C	483	40.277	123.933	21.568	1.00	66.62	C
ATOM	7114	C	ALA	C	483	39.744	123.045	23.822	1.00	39.85	C
ATOM	7115	O	ALA	C	483	39.102	123.695	24.643	1.00	39.85	C
ATOM	7116	N	ALA	C	484	40.789	122.314	24.165	1.00	45.49	C
ATOM	7117	CA	ALA	C	484	41.210	122.296	25.553	1.00	45.49	C
ATOM	7118	CB	ALA	C	484	42.503	121.510	25.698	1.00	83.60	C
ATOM	7119	C	ALA	C	484	41.432	123.750	25.930	1.00	45.49	C
ATOM	7120	O	ALA	C	484	41.262	124.135	27.078	1.00	45.49	C
ATOM	7121	N	ALA	C	485	41.788	124.552	24.928	1.00	62.49	C
ATOM	7122	CA	ALA	C	485	42.062	125.975	25.103	1.00	62.49	C
ATOM	7123	CB	ALA	C	485	42.387	126.604	23.766	1.00	75.01	C
ATOM	7124	C	ALA	C	485	40.939	126.750	25.776	1.00	62.49	C
ATOM	7125	O	ALA	C	485	41.170	127.828	26.316	1.00	62.49	C
ATOM	7126	N	ALA	C	486	39.721	126.224	25.735	1.00	68.78	C
ATOM	7127	CA	ALA	C	486	38.613	126.907	26.385	1.00	68.78	C
ATOM	7128	CB	ALA	C	486	37.278	126.262	26.000	1.00	45.92	C
ATOM	7129	C	ALA	C	486	38.856	126.800	27.890	1.00	68.78	C
ATOM	7130	O	ALA	C	486	38.016	126.309	28.646	1.00	68.78	C
ATOM	7131	N	ALA	C	487	40.039	127.248	28.302	1.00	100.07	C
ATOM	7132	CA	ALA	C	487	40.446	127.243	29.700	1.00	100.07	C
ATOM	7133	CB	ALA	C	487	41.950	126.961	29.820	1.00	8.81	C
ATOM	7134	C	ALA	C	487	40.123	128.623	30.260	1.00	100.07	C
ATOM	7135	O	ALA	C	487	40.944	129.249	30.936	1.00	100.07	C
ATOM	7136	N	ALA	C	488	38.918	129.092	29.957	1.00	100.07	C
ATOM	7137	CA	ALA	C	488	38.450	130.394	30.411	1.00	100.07	C
ATOM	7138	CB	ALA	C	488	38.844	131.475	29.380	1.00	44.69	C
ATOM	7139	C	ALA	C	488	36.930	130.314	30.560	1.00	100.07	C
ATOM	7140	O	ALA	C	488	36.400	129.370	31.149	1.00	100.07	C
ATOM	7141	N	ALA	C	489	36.247	131.322	30.033	1.00	77.46	C
ATOM	7142	CA	ALA	C	489	34.791	131.404	30.034	1.00	77.46	C
ATOM	7143	CB	ALA	C	489	34.251	130.446	28.962	1.00	50.89	C
ATOM	7144	C	ALA	C	489	34.006	131.223	31.355	1.00	77.46	C
ATOM	7145	O	ALA	C	489	32.953	131.850	31.532	1.00	77.46	C
ATOM	7146	N	ALA	C	490	34.500	130.382	32.266	1.00	46.88	C
ATOM	7147	CA	ALA	C	490	33.826	130.117	33.547	1.00	46.88	C
ATOM	7148	CB	ALA	C	490	33.077	131.362	34.034	1.00	5.07	C
ATOM	7149	C	ALA	C	490	32.846	128.944	33.443	1.00	46.88	C
ATOM	7150	O	ALA	C	490	31.669	129.085	33.763	1.00	46.88	C
ATOM	7151	N	ALA	C	491	33.348	127.788	33.014	1.00	51.44	C
ATOM	7152	CA	ALA	C	491	32.547	126.574	32.840	1.00	51.44	C
ATOM	7153	CB	ALA	C	491	33.468	125.407	32.487	1.00	61.55	C
ATOM	7154	C	ALA	C	491	31.638	126.175	34.007	1.00	51.44	C
ATOM	7155	O	ALA	C	491	32.079	126.143	35.159	1.00	51.44	C
ATOM	7156	N	ALA	C	492	30.379	125.845	33.700	1.00	44.47	C
ATOM	7157	CA	ALA	C	492	29.408	125.443	34.733	1.00	44.47	C
ATOM	7158	CB	ALA	C	492	28.175	126.339	34.676	1.00	47.73	C
ATOM	7159	C	ALA	C	492	28.986	123.980	34.617	1.00	44.47	C
ATOM	7160	O	ALA	C	492	28.338	123.594	33.644	1.00	44.47	C
ATOM	7161	N	ALA	C	493	29.344	123.195	35.638	1.00	80.97	C
ATOM	7162	CA	ALA	C	493	29.065	121.752	35.715	1.00	80.97	C
ATOM	7163	CB	ALA	C	493	29.654	121.161	37.028	1.00	41.43	C
ATOM	7164	C	ALA	C	493	27.593	121.381	35.597	1.00	80.97	C
ATOM	7165	O	ALA	C	493	26.718	122.178	35.923	1.00	80.97	C
ATOM	7166	N	ALA	C	494	27.343	120.156	35.134	1.00	52.40	C
ATOM	7167	CA	ALA	C	494	25.995	119.627	34.945	1.00	52.40	C
ATOM	7168	CB	ALA	C	494	26.064	118.183	34.567	1.00	11.52	C
ATOM	7169	C	ALA	C	494	25.155	119.772	36.195	1.00	52.40	C
ATOM	7170	O	ALA	C	494	25.678	119.660	37.306	1.00	52.40	C
ATOM	7171	N	ALA	C	495	23.853	119.998	36.002	1.00	60.75	C
ATOM	7172	CA	ALA	C	495	22.893	120.184	37.095	1.00	60.75	C
ATOM	7173	CB	ALA	C	495	23.368	119.445	38.365	1.00	29.87	C
ATOM	7174	C	ALA	C	495	22.643	121.670	37.412	1.00	60.75	C
ATOM	7175	O	ALA	C	495	23.558	122.500	37.380	1.00	60.75	C
ATOM	7176	N	ALA	C	496	21.388	121.987	37.720	1.00	91.47	C
ATOM	7177	CA	ALA	C	496	20.953	123.344	38.053	1.00	91.47	C
ATOM	7178	CB	ALA	C	496	21.526	124.346	37.057	1.00	100.07	C
ATOM	7179	C	ALA	C	496	19.432	123.331	37.965	1.00	91.47	C
ATOM	7180	O	ALA	C	496	18.737	123.808	38.863	1.00	91.47	C
ATOM	7181	N	ALA	C	497	18.955	122.758	36.860	1.00	100.07	C
ATOM	7182	CA	ALA	C	497	17.541	122.589	36.513	1.00	100.07	C
ATOM	7183	CB	ALA	C	497	17.111	121.140	36.806	1.00	69.36	C
ATOM	7184	C	ALA	C	497	16.518	123.563	37.100	1.00	100.07	C
ATOM	7185	O	ALA	C	497	16.255	123.570	38.301	1.00	100.07	C
ATOM	7186	N	ALA	C	498	15.932	124.369	36.219	1.00	100.07	C



ATOM	7187	CA	ALA	C	498	14.913	125.352	36.579	1.00100.07	C
ATOM	7188	CB	ALA	C	498	15.534	126.509	37.346	1.00 16.63	C
ATOM	7189	C	ALA	C	498	14.296	125.850	35.275	1.00100.07	C
ATOM	7190	O	ALA	C	498	14.681	126.900	34.752	1.00100.07	C
ATOM	7191	N	ALA	C	499	13.337	125.082	34.760	1.00100.07	C
ATOM	7192	CA	ALA	C	499	12.665	125.397	33.497	1.00100.07	C
ATOM	7193	CB	ALA	C	499	12.067	126.811	33.541	1.00100.07	C
ATOM	7194	C	ALA	C	499	13.732	125.300	32.412	1.00100.07	C
ATOM	7195	O	ALA	C	499	14.198	124.208	32.083	1.00100.07	C
ATOM	7196	N	ALA	C	500	14.108	126.445	31.858	1.00 75.11	C
ATOM	7197	CA	ALA	C	500	15.155	126.509	30.850	1.00 75.11	C
ATOM	7198	CB	ALA	C	500	14.578	126.921	29.504	1.00 12.62	C
ATOM	7199	C	ALA	C	500	16.107	127.576	31.381	1.00 75.11	C
ATOM	7200	O	ALA	C	500	17.127	127.884	30.767	1.00 75.11	C
ATOM	7201	N	ALA	C	501	15.755	128.109	32.553	1.00 84.78	C
ATOM	7202	CA	ALA	C	501	16.515	129.157	33.237	1.00 84.78	C
ATOM	7203	CB	ALA	C	501	15.555	130.250	33.722	1.00100.07	C
ATOM	7204	C	ALA	C	501	17.323	128.619	34.419	1.00 84.78	C
ATOM	7205	O	ALA	C	501	16.785	127.908	35.263	1.00 84.78	C
ATOM	7206	N	ALA	C	502	18.605	128.980	34.479	1.00 33.77	C
ATOM	7207	CA	ALA	C	502	19.498	128.538	35.547	1.00 33.77	C
ATOM	7208	CB	ALA	C	502	20.659	129.513	35.677	1.00 5.07	C
ATOM	7209	C	ALA	C	502	18.741	128.414	36.868	1.00 33.77	C
ATOM	7210	O	ALA	C	502	18.237	127.345	37.200	1.00 33.77	C
ATOM	7211	N	ALA	C	503	18.675	129.503	37.622	1.00 99.79	C
ATOM	7212	CA	ALA	C	503	17.937	129.537	38.885	1.00 99.79	C
ATOM	7213	CB	ALA	C	503	16.459	129.284	38.612	1.00100.07	C
ATOM	7214	C	ALA	C	503	18.399	128.645	40.042	1.00 99.79	C
ATOM	7215	O	ALA	C	503	17.743	127.655	40.386	1.00 99.79	C
ATOM	7216	N	ALA	C	504	19.518	129.028	40.649	1.00 99.95	C
ATOM	7217	CA	ALA	C	504	20.092	128.337	41.799	1.00 99.95	C
ATOM	7218	CB	ALA	C	504	20.960	127.181	41.365	1.00 27.97	C
ATOM	7219	C	ALA	C	504	20.937	129.401	42.454	1.00 99.95	C
ATOM	7220	O	ALA	C	504	21.435	129.226	43.562	1.00 99.95	C
ATOM	7221	N	GLY	C	505	21.092	130.507	41.731	1.00 49.62	C
ATOM	7222	CA	GLY	C	505	21.855	131.636	42.220	1.00 49.62	C
ATOM	7223	C	GLY	C	505	23.106	131.257	42.983	1.00 49.62	C
ATOM	7224	O	GLY	C	505	23.434	131.872	44.006	1.00 49.62	C
ATOM	7225	N	ALA	C	506	23.797	130.235	42.483	1.00100.07	C
ATOM	7226	CA	ALA	C	506	25.042	129.741	43.076	1.00100.07	C
ATOM	7227	CB	ALA	C	506	24.738	128.744	44.194	1.00100.07	C
ATOM	7228	C	ALA	C	506	25.861	129.072	41.965	1.00100.07	C
ATOM	7229	O	ALA	C	506	26.998	129.464	41.686	1.00100.07	C
ATOM	7230	N	ALA	C	507	25.266	128.062	41.338	1.00 69.47	C
ATOM	7231	CA	ALA	C	507	25.898	127.355	40.239	1.00 69.47	C
ATOM	7232	CB	ALA	C	507	25.920	128.259	39.011	1.00 11.32	C
ATOM	7233	C	ALA	C	507	27.312	126.907	40.565	1.00 69.47	C
ATOM	7234	O	ALA	C	507	28.223	127.733	40.571	1.00 69.47	C
ATOM	7235	N	ALA	C	508	27.516	125.619	40.842	1.00 58.95	C
ATOM	7236	CA	ALA	C	508	28.880	125.157	41.123	1.00 58.95	C
ATOM	7237	CB	ALA	C	508	28.894	123.738	41.710	1.00 5.07	C
ATOM	7238	C	ALA	C	508	29.537	125.155	39.765	1.00 58.95	C
ATOM	7239	O	ALA	C	508	28.899	124.805	38.771	1.00 58.95	C
ATOM	7240	N	ALA	C	509	30.796	125.557	39.696	1.00 36.57	C
ATOM	7241	CA	ALA	C	509	31.445	125.563	38.396	1.00 36.57	C
ATOM	7242	CB	ALA	C	509	30.896	126.694	37.549	1.00 16.32	C
ATOM	7243	C	ALA	C	509	32.957	125.642	38.454	1.00 36.57	C
ATOM	7244	O	ALA	C	509	33.561	125.630	39.535	1.00 36.57	C
ATOM	7245	N	ALA	C	510	33.559	125.722	37.272	1.00 16.98	C
ATOM	7246	CA	ALA	C	510	35.004	125.779	37.156	1.00 16.98	C
ATOM	7247	CB	ALA	C	510	35.538	124.450	36.616	1.00 80.19	C
ATOM	7248	C	ALA	C	510	35.442	126.906	36.250	1.00 16.98	C
ATOM	7249	O	ALA	C	510	34.740	127.298	35.319	1.00 16.98	C
ATOM	7250	N	ALA	C	511	36.626	127.416	36.533	1.00 77.42	C
ATOM	7251	CA	ALA	C	511	37.192	128.482	35.742	1.00 77.42	C
ATOM	7252	CB	ALA	C	511	36.873	129.836	36.380	1.00 5.07	C
ATOM	7253	C	ALA	C	511	38.695	128.215	35.701	1.00 77.42	C
ATOM	7254	O	ALA	C	511	39.383	128.268	36.725	1.00 77.42	C
ATOM	7255	N	ALA	C	512	39.181	127.888	34.506	1.00 67.81	C
ATOM	7256	CA	ALA	C	512	40.586	127.585	34.273	1.00 67.81	C
ATOM	7257	CB	ALA	C	512	41.474	128.721	34.786	1.00 94.60	C
ATOM	7258	C	ALA	C	512	40.970	126.270	34.933	1.00 67.81	C
ATOM	7259	O	ALA	C	512	41.817	125.540	34.410	1.00 67.81	C
ATOM	7260	N	ALA	C	513	40.341	125.963	36.068	1.00 86.56	C
ATOM	7261	CA	ALA	C	513	40.619	124.724	36.803	1.00 86.56	C
ATOM	7262	CB	ALA	C	513	42.117	124.620	37.101	1.00100.07	C
ATOM	7263	C	ALA	C	513	39.832	124.619	38.110	1.00 86.56	C
ATOM	7264	O	ALA	C	513	39.083	123.666	38.326	1.00 86.56	C
ATOM	7265	N	ALA	C	514	40.030	125.606	38.978	1.00 54.32	C
ATOM	7266	CA	ALA	C	514	39.378	125.673	40.275	1.00 54.32	C
ATOM	7267	CB	ALA	C	514	39.504	127.077	40.841	1.00 86.08	C
ATOM	7268	C	ALA	C	514	37.916	125.279	40.219	1.00 54.32	C
ATOM	7269	O	ALA	C	514	37.228	125.524	39.231	1.00 54.32	C
ATOM	7270	N	ALA	C	515	37.456	124.653	41.293	1.00 75.05	C



ATOM	7271	CA	ALA	C	515	36.066	124.249	41.408	1.00	75.05	C
ATOM	7272	CB	ALA	C	515	35.958	122.984	42.266	1.00	19.56	C
ATOM	7273	C	ALA	C	515	35.369	125.430	42.089	1.00	75.05	C
ATOM	7274	O	ALA	C	515	34.714	125.272	43.119	1.00	75.05	C
ATOM	7275	N	ALA	C	516	35.527	126.615	41.502	1.00	33.77	C
ATOM	7276	CA	ALA	C	516	34.962	127.851	42.041	1.00	33.77	C
ATOM	7277	CB	ALA	C	516	35.715	129.048	41.450	1.00	5.07	C
ATOM	7278	C	ALA	C	516	33.453	128.032	41.853	1.00	33.77	C
ATOM	7279	O	ALA	C	516	32.946	127.977	40.732	1.00	33.77	C
ATOM	7280	N	ALA	C	517	32.765	128.268	42.978	1.00	29.64	C
ATOM	7281	CA	ALA	C	517	31.307	128.477	43.060	1.00	29.64	C
ATOM	7282	CB	ALA	C	517	30.881	128.551	44.514	1.00	26.55	C
ATOM	7283	C	ALA	C	517	30.825	129.731	42.319	1.00	29.64	C
ATOM	7284	O	ALA	C	517	30.688	130.813	42.903	1.00	29.64	C
ATOM	7285	N	ALA	C	518	30.559	129.531	41.026	1.00	100.07	C
ATOM	7286	CA	ALA	C	518	30.105	130.538	40.058	1.00	100.07	C
ATOM	7287	CB	ALA	C	518	29.288	129.857	38.961	1.00	96.52	C
ATOM	7288	C	ALA	C	518	29.348	131.760	40.542	1.00	100.07	C
ATOM	7289	O	ALA	C	518	28.626	131.722	41.537	1.00	100.07	C
ATOM	7290	N	GLY	C	519	29.514	132.843	39.791	1.00	96.72	C
ATOM	7291	CA	GLY	C	519	28.853	134.086	40.117	1.00	96.72	C
ATOM	7292	C	GLY	C	519	27.441	134.128	39.568	1.00	96.72	C
ATOM	7293	O	GLY	C	519	26.932	135.203	39.257	1.00	96.72	C
ATOM	7294	N	ALA	C	520	26.810	132.962	39.439	1.00	72.63	C
ATOM	7295	CA	ALA	C	520	25.435	132.866	38.934	1.00	72.63	C
ATOM	7296	CB	ALA	C	520	24.493	133.622	39.859	1.00	80.18	C
ATOM	7297	C	ALA	C	520	25.254	133.364	37.499	1.00	72.63	C
ATOM	7298	O	ALA	C	520	24.257	133.054	36.850	1.00	72.63	C
ATOM	7299	N	ALA	C	521	26.224	134.142	37.027	1.00	89.56	C
ATOM	7300	CA	ALA	C	521	26.226	134.708	35.684	1.00	89.56	C
ATOM	7301	CB	ALA	C	521	26.827	133.704	34.708	1.00	35.64	C
ATOM	7302	C	ALA	C	521	24.850	135.167	35.194	1.00	89.56	C
ATOM	7303	O	ALA	C	521	24.307	136.171	35.671	1.00	89.56	C
ATOM	7304	N	VAL	C	522	24.303	134.441	34.219	1.00	100.07	C
ATOM	7305	CA	VAL	C	522	22.991	134.745	33.634	1.00	100.07	C
ATOM	7306	CB	VAL	C	522	23.114	134.979	32.084	1.00	83.70	C
ATOM	7307	CG1	VAL	C	522	21.784	135.464	31.502	1.00	83.70	C
ATOM	7308	CG2	VAL	C	522	24.215	136.011	31.801	1.00	83.70	C
ATOM	7309	C	VAL	C	522	21.975	133.616	33.924	1.00	100.07	C
ATOM	7310	O	VAL	C	522	21.917	133.090	35.045	1.00	100.07	C
ATOM	7311	N	ILE	C	523	21.175	133.265	32.919	1.00	100.07	C
ATOM	7312	CA	ILE	C	523	20.161	132.216	33.027	1.00	100.07	C
ATOM	7313	CB	ILE	C	523	18.713	132.835	33.101	1.00	100.07	C
ATOM	7314	CG2	ILE	C	523	17.769	132.176	32.089	1.00	100.07	C
ATOM	7315	CG1	ILE	C	523	18.135	132.677	34.516	1.00	100.07	C
ATOM	7316	CD	ILE	C	523	16.702	133.203	34.668	1.00	100.07	C
ATOM	7317	C	ILE	C	523	20.310	131.359	31.777	1.00	100.07	C
ATOM	7318	O	ILE	C	523	20.599	130.162	31.851	1.00	100.07	C
ATOM	7319	N	VAL	C	524	20.129	131.989	30.622	1.00	99.13	C
ATOM	7320	CA	VAL	C	524	20.276	131.291	29.360	1.00	99.13	C
ATOM	7321	CB	VAL	C	524	18.952	130.788	28.798	1.00	100.07	C
ATOM	7322	CG1	VAL	C	524	19.235	129.833	27.645	1.00	100.07	C
ATOM	7323	CG2	VAL	C	524	18.184	130.073	29.858	1.00	100.07	C
ATOM	7324	C	VAL	C	524	20.929	132.214	28.354	1.00	99.13	C
ATOM	7325	O	VAL	C	524	20.892	131.997	27.152	1.00	99.13	C
ATOM	7326	N	ALA	C	525	21.506	133.285	28.873	1.00	99.85	C
ATOM	7327	CA	ALA	C	525	22.274	134.218	28.062	1.00	99.85	C
ATOM	7328	CB	ALA	C	525	21.930	135.638	28.432	1.00	54.65	C
ATOM	7329	C	ALA	C	525	23.574	133.771	28.730	1.00	99.85	C
ATOM	7330	O	ALA	C	525	24.447	134.587	29.042	1.00	99.85	C
ATOM	7331	N	PRO	C	526	23.730	132.452	28.894	1.00	100.07	C
ATOM	7332	CD	PRO	C	526	23.555	132.065	27.477	1.00	69.64	C
ATOM	7333	CA	PRO	C	526	24.693	131.491	29.469	1.00	100.07	C
ATOM	7334	CB	PRO	C	526	25.317	130.789	28.249	1.00	69.64	C
ATOM	7335	CG	PRO	C	526	24.923	131.579	27.115	1.00	69.64	C
ATOM	7336	C	PRO	C	526	25.745	131.972	30.462	1.00	100.07	C
ATOM	7337	O	PRO	C	526	25.488	132.773	31.371	1.00	100.07	C
ATOM	7338	N	GLU	C	527	26.930	131.398	30.294	1.00	100.07	C
ATOM	7339	CA	GLU	C	527	28.128	131.674	31.086	1.00	100.07	C
ATOM	7340	CB	GLU	C	527	28.148	130.875	32.387	1.00	100.07	C
ATOM	7341	CG	GLU	C	527	26.940	131.095	33.244	1.00	100.07	C
ATOM	7342	CD	GLU	C	527	26.644	129.911	34.133	1.00	100.07	C
ATOM	7343	OE1	GLU	C	527	27.364	129.714	35.139	1.00	100.07	C
ATOM	7344	OE2	GLU	C	527	25.689	129.165	33.811	1.00	100.07	C
ATOM	7345	C	GLU	C	527	29.125	131.078	30.118	1.00	100.07	C
ATOM	7346	O	GLU	C	527	30.330	131.104	30.344	1.00	100.07	C
ATOM	7347	N	ALA	C	528	28.554	130.540	29.038	1.00	81.93	C
ATOM	7348	CA	ALA	C	528	29.270	129.893	27.939	1.00	81.93	C
ATOM	7349	CB	ALA	C	528	30.618	130.565	27.708	1.00	95.44	C
ATOM	7350	C	ALA	C	528	29.467	128.403	28.185	1.00	81.93	C
ATOM	7351	O	ALA	C	528	29.770	127.647	27.251	1.00	81.93	C
ATOM	7352	N	VAL	C	529	29.309	127.984	29.437	1.00	66.83	C
ATOM	7353	CA	VAL	C	529	29.478	126.577	29.776	1.00	66.83	C
ATOM	7354	CB	VAL	C	529	30.786	126.302	30.535	1.00	100.07	C



ATOM	7355	CG1	VAL	C	529	30.811	124.848	30.985	1.00100.07	C
ATOM	7356	CG2	VAL	C	529	31.989	126.578	29.650	1.00100.07	C
ATOM	7357	C	VAL	C	529	28.375	125.984	30.621	1.00 66.83	C
ATOM	7358	O	VAL	C	529	28.020	126.516	31.673	1.00 66.83	C
ATOM	7359	N	GLU	C	530	27.869	124.851	30.156	1.00100.07	C
ATOM	7360	CA	GLU	C	530	26.824	124.147	30.850	1.00100.07	C
ATOM	7361	CB	GLU	C	530	25.593	124.011	29.960	1.00 94.66	C
ATOM	7362	CG	GLU	C	530	24.485	123.198	30.601	1.00 94.66	C
ATOM	7363	CD	GLU	C	530	24.056	123.758	31.951	1.00 94.66	C
ATOM	7364	OE1	GLU	C	530	24.922	123.987	32.826	1.00 94.66	C
ATOM	7365	OE2	GLU	C	530	22.842	123.966	32.140	1.00 94.66	C
ATOM	7366	C	GLU	C	530	27.294	122.764	31.267	1.00100.07	C
ATOM	7367	O	GLU	C	530	26.890	122.282	32.321	1.00100.07	C
ATOM	7368	N	PHE	C	531	28.138	122.132	30.446	1.00 64.70	C
ATOM	7369	CA	PHE	C	531	28.644	120.780	30.717	1.00 64.70	C
ATOM	7370	CB	PHE	C	531	28.806	120.533	32.213	1.00 98.58	C
ATOM	7371	CG	PHE	C	531	30.204	120.650	32.693	1.00 98.58	C
ATOM	7372	CD1	PHE	C	531	30.876	121.860	32.625	1.00 98.58	C
ATOM	7373	CD2	PHE	C	531	30.845	119.553	33.248	1.00 98.58	C
ATOM	7374	CE1	PHE	C	531	32.169	121.973	33.106	1.00 98.58	C
ATOM	7375	CE2	PHE	C	531	32.128	119.647	33.730	1.00 98.58	C
ATOM	7376	CZ	PHE	C	531	32.794	120.858	33.663	1.00 98.58	C
ATOM	7377	C	PHE	C	531	27.686	119.734	30.165	1.00 64.70	C
ATOM	7378	O	PHE	C	531	26.923	119.120	30.910	1.00 64.70	C
ATOM	7379	N	MET	C	532	27.726	119.542	28.852	1.00 37.81	C
ATOM	7380	CA	MET	C	532	26.874	118.577	28.192	1.00 37.81	C
ATOM	7381	CB	MET	C	532	27.489	118.185	26.858	1.00 90.89	C
ATOM	7382	CG	MET	C	532	26.510	117.504	25.972	1.00 90.89	C
ATOM	7383	SD	MET	C	532	24.970	118.422	26.043	1.00 90.89	C
ATOM	7384	CE	MET	C	532	24.008	117.459	27.253	1.00 90.89	C
ATOM	7385	C	MET	C	532	26.735	117.358	29.082	1.00 37.81	C
ATOM	7386	O	MET	C	532	27.728	116.724	29.408	1.00 37.81	C
ATOM	7387	N	ASP	C	533	25.506	117.066	29.500	1.00 43.33	C
ATOM	7388	CA	ASP	C	533	25.176	115.920	30.356	1.00 43.33	C
ATOM	7389	CB	ASP	C	533	24.084	115.102	29.673	1.00100.07	C
ATOM	7390	CG	ASP	C	533	23.404	114.145	30.613	1.00100.07	C
ATOM	7391	OD1	ASP	C	533	22.954	114.605	31.689	1.00100.07	C
ATOM	7392	OD2	ASP	C	533	23.311	112.942	30.272	1.00100.07	C
ATOM	7393	C	ASP	C	533	26.370	115.020	30.706	1.00 43.33	C
ATOM	7394	O	ASP	C	533	26.489	113.890	30.228	1.00 43.33	C
ATOM	7395	N	VAL	C	534	27.235	115.541	31.568	1.00 25.67	C
ATOM	7396	CA	VAL	C	534	28.456	114.874	32.004	1.00 25.67	C
ATOM	7397	CB	VAL	C	534	29.076	115.609	33.183	1.00100.07	C
ATOM	7398	CG1	VAL	C	534	30.326	114.886	33.644	1.00100.07	C
ATOM	7399	CG2	VAL	C	534	29.381	117.024	32.789	1.00100.07	C
ATOM	7400	C	VAL	C	534	28.352	113.427	32.416	1.00 25.67	C
ATOM	7401	O	VAL	C	534	27.803	113.136	33.484	1.00 25.67	C
ATOM	7402	N	SER	C	535	28.918	112.547	31.583	1.00 30.45	C
ATOM	7403	CA	SER	C	535	28.946	111.100	31.822	1.00 30.45	C
ATOM	7404	CB	SER	C	535	27.842	110.674	32.796	1.00100.07	C
ATOM	7405	OG	SER	C	535	26.559	110.974	32.270	1.00100.07	C
ATOM	7406	C	SER	C	535	28.810	110.267	30.548	1.00 30.45	C
ATOM	7407	O	SER	C	535	27.719	110.145	29.977	1.00 30.45	C
ATOM	7408	N	PRO	C	536	29.919	109.660	30.104	1.00 87.03	C
ATOM	7409	CD	PRO	C	536	29.947	108.621	29.055	1.00100.07	C
ATOM	7410	CA	PRO	C	536	31.223	109.746	30.760	1.00 87.03	C
ATOM	7411	CB	PRO	C	536	31.902	108.452	30.347	1.00100.07	C
ATOM	7412	CG	PRO	C	536	31.440	108.309	28.935	1.00100.07	C
ATOM	7413	C	PRO	C	536	32.028	110.958	30.326	1.00 87.03	C
ATOM	7414	O	PRO	C	536	33.232	111.023	30.602	1.00 87.03	C
ATOM	7415	N	LYS	C	537	31.389	111.901	29.630	1.00 27.01	C
ATOM	7416	CA	LYS	C	537	32.111	113.087	29.219	1.00 27.01	C
ATOM	7417	CB	LYS	C	537	31.162	114.239	28.909	1.00 57.11	C
ATOM	7418	CG	LYS	C	537	31.877	115.472	28.347	1.00 57.11	C
ATOM	7419	CD	LYS	C	537	31.083	116.769	28.515	1.00 57.11	C
ATOM	7420	CE	LYS	C	537	31.019	117.179	29.977	1.00 57.11	C
ATOM	7421	NZ	LYS	C	537	30.491	118.556	30.180	1.00 57.11	C
ATOM	7422	C	LYS	C	537	32.747	113.347	30.543	1.00 27.01	C
ATOM	7423	O	LYS	C	537	32.089	113.120	31.557	1.00 27.01	C
ATOM	7424	N	GLN	C	538	33.998	113.778	30.585	1.00 77.89	C
ATOM	7425	CA	GLN	C	538	34.623	114.035	31.884	1.00 77.89	C
ATOM	7426	CB	GLN	C	538	33.738	114.961	32.738	1.00 99.92	C
ATOM	7427	CG	GLN	C	538	34.161	115.106	34.209	1.00 99.92	C
ATOM	7428	CD	GLN	C	538	34.642	116.512	34.562	1.00 99.92	C
ATOM	7429	OE1	GLN	C	538	33.972	117.506	34.268	1.00 99.92	C
ATOM	7430	NE2	GLN	C	538	35.807	116.598	35.203	1.00 99.92	C
ATOM	7431	C	GLN	C	538	34.910	112.752	32.661	1.00 77.89	C
ATOM	7432	O	GLN	C	538	35.965	112.150	32.473	1.00 77.89	C
ATOM	7433	N	VAL	C	539	33.992	112.324	33.532	1.00 98.72	C
ATOM	7434	CA	VAL	C	539	34.255	111.113	34.305	1.00 98.72	C
ATOM	7435	CB	VAL	C	539	33.118	110.796	35.351	1.00 23.12	C
ATOM	7436	CG1	VAL	C	539	32.004	110.010	34.722	1.00 23.12	C
ATOM	7437	CG2	VAL	C	539	33.698	110.045	36.531	1.00 23.12	C
ATOM	7438	C	VAL	C	539	34.513	109.925	33.369	1.00 98.72	C



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ATOM	7439	O	VAL	C	539	33.641	109.456	32.638	1.00	98.72	C
ATOM	7440	N	ALA	C	540	35.774	109.506	33.385	1.00	88.30	C
ATOM	7441	CA	ALA	C	540	36.330	108.398	32.614	1.00	88.30	C
ATOM	7442	CB	ALA	C	540	36.431	107.154	33.516	1.00	100.07	C
ATOM	7443	C	ALA	C	540	35.758	107.993	31.253	1.00	88.30	C
ATOM	7444	O	ALA	C	540	34.873	108.636	30.682	1.00	88.30	C
ATOM	7445	N	SER	C	541	36.316	106.883	30.774	1.00	38.21	C
ATOM	7446	CA	SER	C	541	36.031	106.254	29.492	1.00	38.21	C
ATOM	7447	CB	SER	C	541	36.844	104.962	29.378	1.00	89.88	C
ATOM	7448	OG	SER	C	541	36.477	104.210	28.232	1.00	89.88	C
ATOM	7449	C	SER	C	541	34.609	105.942	29.075	1.00	38.21	C
ATOM	7450	O	SER	C	541	33.662	106.051	29.843	1.00	38.21	C
ATOM	7451	N	LEU	C	542	34.500	105.547	27.812	1.00	99.80	C
ATOM	7452	CA	LEU	C	542	33.240	105.174	27.201	1.00	99.80	C
ATOM	7453	CB	LEU	C	542	33.456	104.793	25.724	1.00	75.91	C
ATOM	7454	CG	LEU	C	542	32.458	103.831	25.052	1.00	75.91	C
ATOM	7455	CD1	LEU	C	542	31.112	104.494	24.846	1.00	75.91	C
ATOM	7456	CD2	LEU	C	542	33.015	103.391	23.722	1.00	75.91	C
ATOM	7457	C	LEU	C	542	32.720	103.974	27.948	1.00	99.80	C
ATOM	7458	O	LEU	C	542	31.526	103.866	28.205	1.00	99.80	C
ATOM	7459	N	ASN	C	543	33.633	103.084	28.320	1.00	45.16	C
ATOM	7460	CA	ASN	C	543	33.232	101.861	28.988	1.00	45.16	C
ATOM	7461	CB	ASN	C	543	33.892	100.665	28.302	1.00	31.59	C
ATOM	7462	CG	ASN	C	543	35.270	100.403	28.814	1.00	31.59	C
ATOM	7463	OD1	ASN	C	543	36.081	101.322	28.923	1.00	31.59	C
ATOM	7464	ND2	ASN	C	543	35.549	99.149	29.146	1.00	31.59	C
ATOM	7465	C	ASN	C	543	33.474	101.796	30.490	1.00	45.16	C
ATOM	7466	O	ASN	C	543	34.131	100.881	30.991	1.00	45.16	C
ATOM	7467	N	THR	C	544	32.912	102.761	31.205	1.00	77.59	C
ATOM	7468	CA	THR	C	544	33.026	102.823	32.652	1.00	77.59	C
ATOM	7469	CB	THR	C	544	34.288	103.652	33.069	1.00	53.19	C
ATOM	7470	OG1	THR	C	544	34.200	104.061	34.438	1.00	53.19	C
ATOM	7471	CG2	THR	C	544	34.452	104.849	32.178	1.00	53.19	C
ATOM	7472	C	THR	C	544	31.717	103.418	33.171	1.00	77.59	C
ATOM	7473	O	THR	C	544	31.579	103.726	34.352	1.00	77.59	C
ATOM	7474	N	ASN	C	545	30.753	103.561	32.260	1.00	46.72	C
ATOM	7475	CA	ASN	C	545	29.419	104.072	32.588	1.00	46.72	C
ATOM	7476	CB	ASN	C	545	28.846	104.912	31.461	1.00	64.40	C
ATOM	7477	CG	ASN	C	545	29.657	106.127	31.191	1.00	64.40	C
ATOM	7478	OD1	ASN	C	545	29.461	107.170	31.812	1.00	64.40	C
ATOM	7479	ND2	ASN	C	545	30.599	106.005	30.267	1.00	64.40	C
ATOM	7480	C	ASN	C	545	28.535	102.857	32.755	1.00	46.72	C
ATOM	7481	O	ASN	C	545	27.357	102.957	33.122	1.00	46.72	C
ATOM	7482	N	LEU	C	546	29.103	101.701	32.441	1.00	51.64	C
ATOM	7483	CA	LEU	C	546	28.359	100.471	32.594	1.00	51.64	C
ATOM	7484	CB	LEU	C	546	29.008	99.333	31.795	1.00	67.44	C
ATOM	7485	CG	LEU	C	546	29.403	99.578	30.331	1.00	67.44	C
ATOM	7486	CD1	LEU	C	546	29.607	98.236	29.664	1.00	67.44	C
ATOM	7487	CD2	LEU	C	546	28.343	100.352	29.585	1.00	67.44	C
ATOM	7488	C	LEU	C	546	28.421	100.200	34.095	1.00	51.64	C
ATOM	7489	O	LEU	C	546	28.235	99.069	34.549	1.00	51.64	C
ATOM	7490	N	ILE	C	547	28.702	101.262	34.852	1.00	46.71	C
ATOM	7491	CA	ILE	C	547	28.782	101.186	36.304	1.00	46.71	C
ATOM	7492	CB	ILE	C	547	30.131	101.669	36.834	1.00	63.78	C
ATOM	7493	CG2	ILE	C	547	30.102	101.656	38.338	1.00	63.78	C
ATOM	7494	CG1	ILE	C	547	31.246	100.738	36.377	1.00	63.78	C
ATOM	7495	CD	ILE	C	547	32.602	101.049	37.001	1.00	63.78	C
ATOM	7496	C	ILE	C	547	27.693	102.032	36.960	1.00	46.71	C
ATOM	7497	O	ILE	C	547	27.864	103.230	37.164	1.00	46.71	C
ATOM	7498	N	PRO	C	548	26.571	101.401	37.330	1.00	86.11	C
ATOM	7499	CD	PRO	C	548	26.375	99.946	37.374	1.00	48.30	C
ATOM	7500	CA	PRO	C	548	25.439	102.062	37.961	1.00	86.11	C
ATOM	7501	CB	PRO	C	548	24.546	100.889	38.354	1.00	48.30	C
ATOM	7502	CG	PRO	C	548	25.505	99.797	38.578	1.00	48.30	C
ATOM	7503	C	PRO	C	548	25.738	102.995	39.123	1.00	86.11	C
ATOM	7504	O	PRO	C	548	24.984	103.939	39.369	1.00	86.11	C
ATOM	7505	N	PHE	C	549	26.812	102.766	39.859	1.00	21.96	C
ATOM	7506	CA	PHE	C	549	27.050	103.692	40.960	1.00	21.96	C
ATOM	7507	CB	PHE	C	549	26.572	103.059	42.275	1.00	66.52	C
ATOM	7508	CG	PHE	C	549	25.065	102.980	42.392	1.00	66.52	C
ATOM	7509	CD1	PHE	C	549	24.322	102.171	41.540	1.00	66.52	C
ATOM	7510	CD2	PHE	C	549	24.386	103.756	43.313	1.00	66.52	C
ATOM	7511	CE1	PHE	C	549	22.926	102.143	41.598	1.00	66.52	C
ATOM	7512	CE2	PHE	C	549	22.992	103.731	43.377	1.00	66.52	C
ATOM	7513	CZ	PHE	C	549	22.265	102.923	42.515	1.00	66.52	C
ATOM	7514	C	PHE	C	549	28.492	104.187	41.041	1.00	21.96	C
ATOM	7515	O	PHE	C	549	29.106	104.276	42.110	1.00	21.96	C
ATOM	7516	N	LEU	C	550	29.022	104.527	39.874	1.00	46.97	C
ATOM	7517	CA	LEU	C	550	30.382	105.016	39.775	1.00	46.97	C
ATOM	7518	CB	LEU	C	550	30.617	105.644	38.396	1.00	31.66	C
ATOM	7519	CG	LEU	C	550	32.022	106.137	38.042	1.00	31.66	C
ATOM	7520	CD1	LEU	C	550	33.081	105.267	38.708	1.00	31.66	C
ATOM	7521	CD2	LEU	C	550	32.183	106.139	36.520	1.00	31.66	C
ATOM	7522	C	LEU	C	550	30.553	106.030	40.873	1.00	46.97	C



ATOM	7523	O	LEU	C	550	31.656	106.263	41.346	1.00	46.97	C
ATOM	7524	N	GLU	C	551	29.436	106.618	41.283	1.00	44.84	C
ATOM	7525	CA	GLU	C	551	29.442	107.598	42.349	1.00	44.84	C
ATOM	7526	CB	GLU	C	551	28.027	108.102	42.594	1.00	99.26	C
ATOM	7527	CG	GLU	C	551	27.216	108.214	41.331	1.00	99.26	C
ATOM	7528	CD	GLU	C	551	26.115	109.231	41.453	1.00	99.26	C
ATOM	7529	OE1	GLU	C	551	26.442	110.419	41.654	1.00	99.26	C
ATOM	7530	OE2	GLU	C	551	24.929	108.850	41.347	1.00	99.26	C
ATOM	7531	C	GLU	C	551	29.975	106.890	43.591	1.00	44.84	C
ATOM	7532	O	GLU	C	551	31.178	106.866	43.827	1.00	44.84	C
ATOM	7533	N	HIS	C	552	29.078	106.308	44.377	1.00	62.12	C
ATOM	7534	CA	HIS	C	552	29.467	105.580	45.581	1.00	62.12	C
ATOM	7535	CB	HIS	C	552	28.235	104.955	46.218	1.00	38.24	C
ATOM	7536	CG	HIS	C	552	27.002	105.779	46.059	1.00	38.24	C
ATOM	7537	CD2	HIS	C	552	26.139	105.892	45.024	1.00	38.24	C
ATOM	7538	ND1	HIS	C	552	26.555	106.648	47.030	1.00	38.24	C
ATOM	7539	CE1	HIS	C	552	25.467	107.258	46.599	1.00	38.24	C
ATOM	7540	NE2	HIS	C	552	25.194	106.818	45.384	1.00	38.24	C
ATOM	7541	C	HIS	C	552	30.412	104.472	45.144	1.00	62.12	C
ATOM	7542	O	HIS	C	552	30.109	103.293	45.282	1.00	62.12	C
ATOM	7543	N	ASP	C	553	31.563	104.852	44.620	1.00	74.17	C
ATOM	7544	CA	ASP	C	553	32.513	103.881	44.131	1.00	74.17	C
ATOM	7545	CB	ASP	C	553	31.994	103.313	42.802	1.00	24.87	C
ATOM	7546	CG	ASP	C	553	31.498	101.878	42.926	1.00	24.87	C
ATOM	7547	OD1	ASP	C	553	31.012	101.481	44.008	1.00	24.87	C
ATOM	7548	OD2	ASP	C	553	31.596	101.146	41.925	1.00	24.87	C
ATOM	7549	C	ASP	C	553	33.859	104.577	43.958	1.00	74.17	C
ATOM	7550	O	ASP	C	553	34.060	105.377	43.038	1.00	74.17	C
ATOM	7551	N	ASP	C	554	34.776	104.272	44.868	1.00	18.17	C
ATOM	7552	CA	ASP	C	554	36.111	104.856	44.854	1.00	18.17	C
ATOM	7553	CB	ASP	C	554	36.932	104.285	46.013	1.00	45.40	C
ATOM	7554	CG	ASP	C	554	38.371	104.734	45.975	1.00	45.40	C
ATOM	7555	OD1	ASP	C	554	39.035	104.475	44.955	1.00	45.40	C
ATOM	7556	OD2	ASP	C	554	38.847	105.342	46.954	1.00	45.40	C
ATOM	7557	C	ASP	C	554	36.845	104.614	43.539	1.00	18.17	C
ATOM	7558	O	ASP	C	554	37.094	103.472	43.173	1.00	18.17	C
ATOM	7559	N	ALA	C	555	37.203	105.691	42.846	1.00	34.34	C
ATOM	7560	CA	ALA	C	555	37.926	105.597	41.580	1.00	34.34	C
ATOM	7561	CB	ALA	C	555	38.827	106.789	41.404	1.00	19.00	C
ATOM	7562	C	ALA	C	555	38.755	104.335	41.517	1.00	34.34	C
ATOM											



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ATOM	7607	O	SER	C	562	36.697	98.465	32.083	1.00	24.81	C
ATOM	7608	N	ASN	C	563	38.239	98.168	33.688	1.00	10.93	C
ATOM	7609	CA	ASN	C	563	39.037	97.259	32.864	1.00	10.93	C
ATOM	7610	CB	ASN	C	563	40.478	97.127	33.390	1.00	27.67	C
ATOM	7611	CG	ASN	C	563	41.293	98.406	33.230	1.00	27.67	C
ATOM	7612	OD1	ASN	C	563	42.277	98.627	33.944	1.00	27.67	C
ATOM	7613	ND2	ASN	C	563	40.898	99.244	32.286	1.00	27.67	C
ATOM	7614	C	ASN	C	563	38.327	95.947	33.042	1.00	10.93	C
ATOM	7615	O	ASN	C	563	37.815	95.361	32.103	1.00	10.93	C
ATOM	7616	N	MET	C	564	38.277	95.526	34.292	1.00	15.33	C
ATOM	7617	CA	MET	C	564	37.652	94.282	34.680	1.00	15.33	C
ATOM	7618	CB	MET	C	564	36.993	94.463	36.043	1.00	33.53	C
ATOM	7619	CG	MET	C	564	36.804	93.175	36.812	1.00	33.53	C
ATOM	7620	SD	MET	C	564	38.294	92.697	37.662	1.00	33.53	C
ATOM	7621	CE	MET	C	564	39.226	92.028	36.304	1.00	33.53	C
ATOM	7622	C	MET	C	564	36.632	93.741	33.665	1.00	15.33	C
ATOM	7623	O	MET	C	564	36.609	92.541	33.397	1.00	15.33	C
ATOM	7624	N	GLN	C	565	35.793	94.613	33.108	1.00	39.06	C
ATOM	7625	CA	GLN	C	565	34.793	94.184	32.131	1.00	39.06	C
ATOM	7626	CB	GLN	C	565	33.836	95.322	31.797	1.00	43.60	C
ATOM	7627	CG	GLN	C	565	32.579	95.396	32.619	1.00	43.60	C
ATOM	7628	CD	GLN	C	565	31.681	96.528	32.142	1.00	43.60	C
ATOM	7629	OE1	GLN	C	565	32.043	97.702	32.249	1.00	43.60	C
ATOM	7630	NE2	GLN	C	565	30.513	96.181	31.602	1.00	43.60	C
ATOM	7631	C	GLN	C	565	35.376	93.669	30.812	1.00	39.06	C
ATOM	7632	O	GLN	C	565	35.095	92.535	30.425	1.00	39.06	C
ATOM	7633	N	THR	C	566	36.168	94.503	30.128	1.00	12.13	C
ATOM	7634	CA	THR	C	566	36.761	94.137	28.833	1.00	12.13	C
ATOM	7635	CB	THR	C	566	38.150	94.755	28.583	1.00	7.27	C
ATOM	7636	OG1	THR	C	566	38.058	96.180	28.557	1.00	7.27	C
ATOM	7637	CG2	THR	C	566	38.673	94.306	27.241	1.00	7.27	C
ATOM	7638	C	THR	C	566	36.959	92.655	28.700	1.00	12.13	C
ATOM	7639	O	THR	C	566	36.752	92.099	27.627	1.00	12.13	C
ATOM	7640	N	GLN	C	567	37.374	92.033	29.803	1.00	17.53	C
ATOM	7641	CA	GLN	C	567	37.634	90.601	29.861	1.00	17.53	C
ATOM	7642	CB	GLN	C	567	38.664	90.340	30.968	1.00	67.31	C
ATOM	7643	CG	GLN	C	567	39.641	91.526	31.163	1.00	67.31	C
ATOM	7644	CD	GLN	C	567	40.991	91.138	31.769	1.00	67.31	C
ATOM	7645	OE1	GLN	C	567	41.734	90.337	31.195	1.00	67.31	C
ATOM	7646	NE2	GLN	C	567	41.317	91.715	32.923	1.00	67.31	C
ATOM	7647	C	GLN	C	567	36.328	89.845	30.110	1.00	17.53	C
ATOM	7648	O	GLN	C	567	36.272	88.900	30.885	1.00	17.53	C
ATOM	7649	N	ALA	C	568	35.286	90.282	29.418	1.00	24.15	C
ATOM	7650	CA	ALA	C	568	33.954	89.712	29.517	1.00	24.15	C
ATOM	7651	CB	ALA	C	568	33.059	90.322	28.462	1.00	67.54	C
ATOM	7652	C	ALA	C	568	33.887	88.205	29.411	1.00	24.15	C
ATOM	7653	O	ALA	C	568	33.919	87.526	30.424	1.00	24.15	C
ATOM	7654	N	VAL	C	569	33.770	87.700	28.182	1.00	12.59	C
ATOM	7655	CA	VAL	C	569	33.661	86.261	27.868	1.00	12.59	C
ATOM	7656	CB	VAL	C	569	34.095	85.348	29.017	1.00	21.13	C
ATOM	7657	CG1	VAL	C	569	33.927	83.908	28.615	1.00	21.13	C
ATOM	7658	CG2	VAL	C	569	35.520	85.602	29.362	1.00	21.13	C
ATOM	7659	C	VAL	C	569	32.219	85.900	27.553	1.00	12.59	C
ATOM	7660	O	VAL	C	569	31.514	85.362	28.396	1.00	12.59	C
ATOM	7661	N	PRO	C	570	31.769	86.176	26.321	1.00	35.39	C
ATOM	7662	CD	PRO	C	570	32.588	86.473	25.137	1.00	74.38	C
ATOM	7663	CA	PRO	C	570	30.397	85.874	25.924	1.00	35.39	C
ATOM	7664	CB	PRO	C	570	30.456	85.939	24.397	1.00	74.38	C
ATOM	7665	CG	PRO	C	570	31.890	85.670	24.083	1.00	74.38	C
ATOM	7666	C	PRO	C	570	29.906	84.539	26.443	1.00	35.39	C
ATOM	7667	O	PRO	C	570	30.664	83.568	26.495	1.00	35.39	C
ATOM	7668	N	LEU	C	571	28.630	84.518	26.831	1.00	33.95	C
ATOM	7669	CA	LEU	C	571	27.971	83.330	27.372	1.00	33.95	C
ATOM	7670	CB	LEU	C	571	27.508	83.600	28.816	1.00	10.32	C
ATOM	7671	CG	LEU	C	571	28.562	83.994	29.866	1.00	10.32	C
ATOM	7672	CD1	LEU	C	571	29.173	85.305	29.463	1.00	10.32	C
ATOM	7673	CD2	LEU	C	571	27.950	84.129	31.252	1.00	10.32	C
ATOM	7674	C	LEU	C	571	26.768	82.909	26.512	1.00	33.95	C
ATOM	7675	O	LEU	C	571	26.221	83.718	25.761	1.00	33.95	C
ATOM	7676	N	ILE	C	572	26.384	81.636	26.629	1.00	47.12	C
ATOM	7677	CA	ILE	C	572	25.251	81.056	25.901	1.00	47.12	C
ATOM	7678	CB	ILE	C	572	24.997	79.581	26.317	1.00	48.48	C
ATOM	7679	CG2	ILE	C	572	25.477	78.643	25.246	1.00	48.48	C
ATOM	7680	CG1	ILE	C	572	25.719	79.268	27.626	1.00	48.48	C
ATOM	7681	CD	ILE	C	572	25.270	80.112	28.819	1.00	48.48	C
ATOM	7682	C	ILE	C	572	23.972	81.829	26.182	1.00	47.12	C
ATOM	7683	O	ILE	C	572	23.140	82.039	25.299	1.00	47.12	C
ATOM	7684	N	ARG	C	573	23.825	82.246	27.431	1.00	32.55	C
ATOM	7685	CA	ARG	C	573	22.656	82.991	27.866	1.00	32.55	C
ATOM	7686	CB	ARG	C	573	21.923	82.192	28.929	1.00	40.55	C
ATOM	7687	CG	ARG	C	573	22.003	80.690	28.738	1.00	40.55	C
ATOM	7688	CD	ARG	C	573	21.791	79.987	30.064	1.00	40.55	C
ATOM	7689	NE	ARG	C	573	20.407	79.593	30.339	1.00	40.55	C
ATOM	7690	CZ	ARG	C	573	19.327	80.363	30.189	1.00	40.55	C



ATOM	7691	NH1	ARG	C	573	19.417	81.615	29.748	1.00	40.55	C
ATOM	7692	NH2	ARG	C	573	18.138	79.866	30.503	1.00	40.55	C
ATOM	7693	C	ARG	C	573	23.145	84.294	28.468	1.00	32.55	C
ATOM	7694	O	ARG	C	573	22.933	84.551	29.658	1.00	32.55	C
ATOM	7695	N	ALA	C	574	23.815	85.110	27.657	1.00	30.93	C
ATOM	7696	CA	ALA	C	574	24.322	86.384	28.155	1.00	30.93	C
ATOM	7697	CB	ALA	C	574	24.866	87.214	27.023	1.00	67.20	C
ATOM	7698	C	ALA	C	574	23.147	87.080	28.812	1.00	30.93	C
ATOM	7699	O	ALA	C	574	22.037	86.559	28.793	1.00	30.93	C
ATOM	7700	N	GLN	C	575	23.366	88.243	29.399	1.00	34.78	C
ATOM	7701	CA	GLN	C	575	22.261	88.942	30.037	1.00	34.78	C
ATOM	7702	CB	GLN	C	575	21.855	88.261	31.358	1.00	54.90	C
ATOM	7703	CG	GLN	C	575	21.124	86.920	31.217	1.00	54.90	C
ATOM	7704	CD	GLN	C	575	20.546	86.406	32.531	1.00	54.90	C
ATOM	7705	OE1	GLN	C	575	21.250	86.299	33.532	1.00	54.90	C
ATOM	7706	NE2	GLN	C	575	19.257	86.079	32.526	1.00	54.90	C
ATOM	7707	C	GLN	C	575	22.618	90.389	30.310	1.00	34.78	C
ATOM	7708	O	GLN	C	575	23.762	90.713	30.634	1.00	34.78	C
ATOM	7709	N	ALA	C	576	21.638	91.265	30.148	1.00	16.83	C
ATOM	7710	CA	ALA	C	576	21.867	92.660	30.403	1.00	16.83	C
ATOM	7711	CB	ALA	C	576	20.782	93.492	29.776	1.00	86.29	C
ATOM	7712	C	ALA	C	576	21.800	92.751	31.908	1.00	16.83	C
ATOM	7713	O	ALA	C	576	21.265	91.850	32.560	1.00	16.83	C
ATOM	7714	N	PRO	C	577	22.385	93.810	32.487	1.00	73.42	C
ATOM	7715	CD	PRO	C	577	23.386	94.675	31.841	1.00	80.42	C
ATOM	7716	CA	PRO	C	577	22.383	94.023	33.937	1.00	73.42	C
ATOM	7717	CB	PRO	C	577	23.661	94.822	34.165	1.00	80.42	C
ATOM	7718	CG	PRO	C	577	23.743	95.646	32.949	1.00	80.42	C
ATOM	7719	C	PRO	C	577	21.119	94.796	34.336	1.00	73.42	C
ATOM	7720	O	PRO	C	577	20.716	95.731	33.642	1.00	73.42	C
ATOM	7721	N	VAL	C	578	20.500	94.383	35.444	1.00	99.09	C
ATOM	7722	CA	VAL	C	578	19.272	95.004	35.945	1.00	99.09	C
ATOM	7723	CB	VAL	C	578	18.863	94.421	37.317	1.00	100.07	C
ATOM	7724	CG1	VAL	C	578	17.598	95.097	37.813	1.00	100.07	C
ATOM	7725	CG2	VAL	C	578	18.625	92.925	37.202	1.00	100.07	C
ATOM	7726	C	VAL	C	578	19.426	96.511	36.078	1.00	99.09	C
ATOM	7727	O	VAL	C	578	18.650	97.284	35.521	1.00	99.09	C
ATOM	7728	N	VAL	C	579	20.415	96.927	36.839	1.00	45.44	C
ATOM	7729	CA	VAL	C	579	20.688	98.339	36.987	1.00	45.44	C
ATOM	7730	CB	VAL	C	579	21.447	98.569	38.277	1.00	100.07	C
ATOM	7731	CG1	VAL	C	579	21.223	99.976	38.774	1.00	100.07	C
ATOM	7732	CG2	VAL	C	579	21.039	97.541	39.303	1.00	100.07	C
ATOM	7733	C	VAL	C	579	21.647	98.529	35.816	1.00	45.44	C
ATOM	7734	O	VAL	C	579	22.797	98.136	35.952	1.00	45.44	C
ATOM	7735	N	MET	C	580	21.230	99.110	34.688	1.00	79.50	C
ATOM	7736	CA	MET	C	580	22.168	99.142	33.569	1.00	79.50	C
ATOM	7737	CB	MET	C	580	21.563	98.394	32.373	1.00	100.07	C
ATOM	7738	CG	MET	C	580	20.210	98.889	31.904	1.00	82.47	C
ATOM	7739	SD	MET	C	580	19.895	98.194	30.273	1.00	82.47	C
ATOM	7740	CE	MET	C	580	20.423	99.579	29.251	1.00	82.47	C
ATOM	7741	C	MET	C	580	22.916	100.362	33.033	1.00	79.50	C
ATOM	7742	O	MET	C	580	24.029	100.216	32.529	1.00	79.50	C
ATOM	7743	N	ILE	C	581	22.334	101.560	33.120	1.00	65.73	C
ATOM	7744	CA	ILE	C	581	22.975	102.787	32.630	1.00	65.73	C
ATOM	7745	CB	ILE	C	581	24.498	102.859	32.951	1.00	100.07	C
ATOM	7746	CG2	ILE	C	581	24.958	104.302	32.849	1.00	100.07	C
ATOM	7747	CG1	ILE	C	581	24.806	102.273	34.341	1.00	100.07	C
ATOM	7748	CD	ILE	C	581	23.853	102.712	35.427	1.00	100.07	C
ATOM	7749	C	ILE	C	581	22.857	103.009	31.142	1.00	65.73	C
ATOM	7750	O	ILE	C	581	23.857	103.118	30.468	1.00	65.73	C
ATOM	7751	N	GLY	C	582	21.641	103.082	30.602	1.00	92.71	C
ATOM	7752	CA	GLY	C	582	21.451	103.312	29.180	1.00	92.71	C
ATOM	7753	C	GLY	C	582	22.516	102.818	28.210	1.00	92.71	C
ATOM	7754	O	GLY	C	582	22.376	101.748	27.644	1.00	92.71	C
ATOM	7755	N	LEU	C	583	23.556	103.625	28.010	1.00	60.27	C
ATOM	7756	CA	LEU	C	583	24.672	103.311	27.119	1.00	60.27	C
ATOM	7757	CB	LEU	C	583	25.998	103.553	27.834	1.00	91.16	C
ATOM	7758	CG	LEU	C	583	26.573	104.961	27.793	1.00	96.91	C
ATOM	7759	CD1	LEU	C	583	27.928	104.981	28.460	1.00	96.91	C
ATOM	7760	CD2	LEU	C	583	26.700	105.404	26.357	1.00	96.91	C
ATOM	7761	C	LEU	C	583	24.665	101.890	26.585	1.00	60.27	C
ATOM	7762	O	LEU	C	583	24.815	101.667	25.379	1.00	60.27	C
ATOM	7763	N	GLU	C	584	24.510	100.934	27.497	1.00	51.86	C
ATOM	7764	CA	GLU	C	584	24.494	99.514	27.168	1.00	51.86	C
ATOM	7765	CB	GLU	C	584	23.645	98.795	28.190	1.00	93.84	C
ATOM	7766	CG	GLU	C	584	23.700	99.453	29.542	1.00	99.59	C
ATOM	7767	CD	GLU	C	584	24.354	98.573	30.557	1.00	99.59	C
ATOM	7768	OE1	GLU	C	584	23.760	97.536	30.868	1.00	99.59	C
ATOM	7769	OE2	GLU	C	584	25.456	98.897	31.046	1.00	99.59	C
ATOM	7770	C	GLU	C	584	23.927	99.282	25.779	1.00	51.86	C
ATOM	7771	O	GLU	C	584	24.264	98.297	25.122	1.00	51.86	C
ATOM	7772	N	GLU	C	585	23.075	100.208	25.341	1.00	60.51	C
ATOM	7773	CA	GLU	C	585	22.408	100.139	24.045	1.00	60.51	C
ATOM	7774	CB	GLU	C	585	21.237	101.123	24.007	1.00	100.07	C



ATOM	7775	CG	GLU	C	585	20.166	100.866	25.071	1.00100.07	C
ATOM	7776	CD	GLU	C	585	18.936	101.773	24.936	1.00100.07	C
ATOM	7777	OE1	GLU	C	585	18.381	101.880	23.820	1.00100.07	C
ATOM	7778	OE2	GLU	C	585	18.513	102.370	25.952	1.00100.07	C
ATOM	7779	C	GLU	C	585	23.306	100.415	22.858	1.00 60.51	C
ATOM	7780	O	GLU	C	585	23.404	99.581	21.968	1.00 60.51	C
ATOM	7781	N	ARG	C	586	23.944	101.588	22.850	1.00 61.97	C
ATOM	7782	CA	ARG	C	586	24.821	102.019	21.758	1.00 61.97	C
ATOM	7783	CB	ARG	C	586	25.092	103.525	21.871	1.00 98.61	C
ATOM	7784	CG	ARG	C	586	25.195	104.259	20.543	1.00100.07	C
ATOM	7785	CD	ARG	C	586	24.884	105.725	20.715	1.00100.07	C
ATOM	7786	NE	ARG	C	586	23.925	106.189	19.717	1.00100.07	C
ATOM	7787	CZ	ARG	C	586	22.909	107.013	19.973	1.00100.07	C
ATOM	7788	NH1	ARG	C	586	22.710	107.467	21.206	1.00100.07	C
ATOM	7789	NH2	ARG	C	586	22.098	107.395	18.992	1.00100.07	C
ATOM	7790	C	ARG	C	586	26.149	101.266	21.660	1.00 61.97	C
ATOM	7791	O	ARG	C	586	26.610	100.981	20.556	1.00 61.97	C
ATOM	7792	N	VAL	C	587	26.760	100.943	22.801	1.00 51.35	C
ATOM	7793	CA	VAL	C	587	28.048	100.239	22.802	1.00 51.35	C
ATOM	7794	CB	VAL	C	587	28.440	99.735	24.201	1.00 47.36	C
ATOM	7795	CG1	VAL	C	587	29.595	98.751	24.098	1.00 53.11	C
ATOM	7796	CG2	VAL	C	587	28.850	100.916	25.073	1.00 53.11	C
ATOM	7797	C	VAL	C	587	28.085	99.062	21.854	1.00 51.35	C
ATOM	7798	O	VAL	C	587	29.153	98.711	21.370	1.00 51.35	C
ATOM	7799	N	VAL	C	588	26.928	98.456	21.587	1.00 37.60	C
ATOM	7800	CA	VAL	C	588	26.854	97.322	20.667	1.00 37.60	C
ATOM	7801	CB	VAL	C	588	25.792	96.316	21.070	1.00 36.67	C
ATOM	7802	CG1	VAL	C	588	25.879	95.115	20.167	1.00 42.42	C
ATOM	7803	CG2	VAL	C	588	25.971	95.915	22.504	1.00 42.42	C
ATOM	7804	C	VAL	C	588	26.451	97.822	19.298	1.00 37.60	C
ATOM	7805	O	VAL	C	588	27.110	97.555	18.295	1.00 37.60	C
ATOM	7806	N	ARG	C	589	25.349	98.555	19.273	1.00 38.69	C
ATOM	7807	CA	ARG	C	589	24.824	99.103	18.037	1.00 38.69	C
ATOM	7808	CB	ARG	C	589	23.519	99.846	18.344	1.00100.07	C
ATOM	7809	CG	ARG	C	589	22.627	98.988	19.247	1.00100.07	C
ATOM	7810	CD	ARG	C	589	21.220	99.517	19.492	1.00100.07	C
ATOM	7811	NE	ARG	C	589	20.448	98.541	20.269	1.00100.07	C
ATOM	7812	CZ	ARG	C	589	19.127	98.572	20.425	1.00100.07	C
ATOM	7813	NH1	ARG	C	589	18.410	99.534	19.860	1.00100.07	C
ATOM	7814	NH2	ARG	C	589	18.519	97.630	21.134	1.00100.07	C
ATOM	7815	C	ARG	C	589	25.862	99.998	17.392	1.00 38.69	C
ATOM	7816	O	ARG	C	589	25.555	100.815	16.531	1.00 38.69	C
ATOM	7817	N	ASP	C	590	27.101	99.821	17.830	1.00 31.50	C
ATOM	7818	CA	ASP	C	590	28.244	100.564	17.330	1.00 31.50	C
ATOM	7819	CB	ASP	C	590	28.617	101.708	18.283	1.00100.07	C
ATOM	7820	CG	ASP	C	590	27.563	102.801	18.338	1.00 99.80	C
ATOM	7821	OD1	ASP	C	590	27.195	103.343	17.275	1.00 99.80	C
ATOM	7822	OD2	ASP	C	590	27.116	103.129	19.455	1.00 99.80	C
ATOM	7823	C	ASP	C	590	29.417	99.587	17.221	1.00 31.50	C
ATOM	7824	O	ASP	C	590	30.320	99.764	16.399	1.00 31.50	C
ATOM	7825	N	SER	C	591	29.402	98.556	18.061	1.00 51.99	C
ATOM	7826	CA	SER	C	591	30.453	97.541	18.050	1.00 51.99	C
ATOM	7827	CB	SER	C	591	30.404	96.698	19.321	1.00100.07	C
ATOM	7828	OG	SER	C	591	29.322	95.776	19.273	1.00 80.96	C
ATOM	7829	C	SER	C	591	30.156	96.635	16.879	1.00 51.99	C
ATOM	7830	O	SER	C	591	30.402	95.439	16.950	1.00 51.99	C
ATOM	7831	N	LEU	C	592	29.613	97.224	15.817	1.00 23.57	C
ATOM	7832	CA	LEU	C	592	29.214	96.516	14.599	1.00 23.57	C
ATOM	7833	CB	LEU	C	592	30.106	96.919	13.421	1.00 93.77	C
ATOM	7834	CG	LEU	C	592	30.020	98.360	12.917	1.00 99.52	C
ATOM	7835	CD1	LEU	C	592	30.845	98.502	11.649	1.00 99.52	C
ATOM	7836	CD2	LEU	C	592	28.571	98.717	12.639	1.00 99.52	C
ATOM	7837	C	LEU	C	592	29.248	95.014	14.748	1.00 23.57	C
ATOM	7838	O	LEU	C	592	29.919	94.354	13.969	1.00 23.57	C
ATOM	7839	N	ALA	C	593	28.547	94.470	15.740	1.00 47.38	C
ATOM	7840	CA	ALA	C	593	28.548	93.025	15.956	1.00 47.38	C
ATOM	7841	CB	ALA	C	593	29.304	92.672	17.243	1.00 5.07	C
ATOM	7842	C	ALA	C	593	27.126	92.514	16.026	1.00 47.38	C
ATOM	7843	O	ALA	C	593	26.823	91.538	16.714	1.00 47.38	C
ATOM	7844	N	ALA	C	594	26.249	93.188	15.302	1.00 31.85	C
ATOM	7845	CA	ALA	C	594	24.850	92.807	15.276	1.00 31.85	C
ATOM	7846	CB	ALA	C	594	24.105	93.525	16.391	1.00 24.88	C
ATOM	7847	C	ALA	C	594	24.310	93.198	13.903	1.00 31.85	C
ATOM	7848	O	ALA	C	594	24.983	93.913	13.161	1.00 31.85	C
ATOM	7849	N	LEU	C	595	23.112	92.737	13.557	1.00 69.24	C
ATOM	7850	CA	LEU	C	595	22.553	93.042	12.247	1.00 69.24	C
ATOM	7851	CB	LEU	C	595	21.615	91.919	11.809	1.00100.07	C
ATOM	7852	CG	LEU	C	595	22.337	90.891	10.931	1.00 94.58	C
ATOM	7853	CD1	LEU	C	595	21.598	89.561	10.892	1.00 94.58	C
ATOM	7854	CD2	LEU	C	595	22.481	91.476	9.544	1.00 94.58	C
ATOM	7855	C	LEU	C	595	21.873	94.399	12.102	1.00 69.24	C
ATOM	7856	O	LEU	C	595	22.364	95.254	11.372	1.00 69.24	C
ATOM	7857	N	TYR	C	596	20.749	94.609	12.775	1.00100.07	C
ATOM	7858	CA	TYR	C	596	20.058	95.897	12.679	1.00100.07	C



ATOM	7859	CB	TYR	C	596	20.961	97.014	13.216	1.00100.07	C
ATOM	7860	CG	TYR	C	596	21.503	96.783	14.606	1.00 99.93	C
ATOM	7861	CD1	TYR	C	596	22.692	97.380	15.012	1.00 99.93	C
ATOM	7862	CE1	TYR	C	596	23.193	97.187	16.292	1.00 99.93	C
ATOM	7863	CD2	TYR	C	596	20.823	95.983	15.524	1.00 99.93	C
ATOM	7864	CE2	TYR	C	596	21.316	95.787	16.812	1.00 99.93	C
ATOM	7865	CZ	TYR	C	596	22.503	96.393	17.188	1.00 99.93	C
ATOM	7866	OH	TYR	C	596	23.000	96.209	18.458	1.00 99.93	C
ATOM	7867	C	TYR	C	596	19.658	96.242	11.238	1.00100.07	C
ATOM	7868	O	TYR	C	596	20.467	96.773	10.470	1.00100.07	C
ATOM	7869	N	ALA	C	597	18.413	95.948	10.872	1.00 54.19	C
ATOM	7870	CA	ALA	C	597	17.936	96.258	9.535	1.00 54.19	C
ATOM	7871	CB	ALA	C	597	16.704	95.443	9.214	1.00 32.33	C
ATOM	7872	C	ALA	C	597	17.600	97.740	9.492	1.00 54.19	C
ATOM	7873	O	ALA	C	597	17.241	98.339	10.522	1.00 54.19	C
ATOM	7874	N	GLU	C	598	17.705	98.324	8.298	1.00 99.93	C
ATOM	7875	CA	GLU	C	598	17.417	99.745	8.103	1.00 99.93	C
ATOM	7876	CB	GLU	C	598	18.736	100.480	7.802	1.00100.07	C
ATOM	7877	CG	GLU	C	598	19.822	100.153	8.842	1.00100.07	C
ATOM	7878	CD	GLU	C	598	21.097	100.975	8.698	1.00100.07	C
ATOM	7879	OE1	GLU	C	598	21.686	100.999	7.596	1.00100.07	C
ATOM	7880	OE2	GLU	C	598	21.518	101.588	9.703	1.00100.07	C
ATOM	7881	C	GLU	C	598	16.348	100.027	7.019	1.00 99.93	C
ATOM	7882	O	GLU	C	598	16.629	100.657	5.994	1.00 99.93	C
ATOM	7883	N	ALA	C	599	15.123	99.553	7.278	1.00100.07	C
ATOM	7884	CA	ALA	C	599	13.974	99.725	6.385	1.00100.07	C
ATOM	7885	CB	ALA	C	599	14.323	99.246	4.996	1.00 29.73	C
ATOM	7886	C	ALA	C	599	12.697	99.017	6.892	1.00100.07	C
ATOM	7887	O	ALA	C	599	11.751	99.694	7.298	1.00100.07	C
ATOM	7888	N	ALA	C	600	12.683	97.675	6.865	1.00 95.62	C
ATOM	7889	CA	ALA	C	600	11.560	96.817	7.322	1.00 95.62	C
ATOM	7890	CB	ALA	C	600	10.331	97.653	7.652	1.00 64.11	C
ATOM	7891	C	ALA	C	600	11.189	95.768	6.267	1.00 95.62	C
ATOM	7892	O	ALA	C	600	11.626	95.872	5.125	1.00 95.62	C
ATOM	7893	N	ALA	C	601	10.393	94.769	6.665	1.00 65.54	C
ATOM	7894	CA	ALA	C	601	9.918	93.678	5.787	1.00 65.54	C
ATOM	7895	CB	ALA	C	601	10.703	93.652	4.461	1.00 14.47	C
ATOM	7896	C	ALA	C	601	9.983	92.289	6.451	1.00 65.54	C
ATOM	7897	O	ALA	C	601	9.246	92.019	7.403	1.00 65.54	C
ATOM	7898	N	ALA	C	602	10.859	91.425	5.922	1.00 66.42	C
ATOM	7899	CA	ALA	C	602	11.083	90.048	6.392	1.00 66.42	C
ATOM	7900	CB	ALA	C	602	10.170	89.709	7.582	1.00 16.02	C
ATOM	7901	C	ALA	C	602	10.869	89.027	5.275	1.00 66.42	C
ATOM	7902	O	ALA	C	602	10.611	89.388	4.123	1.00 66.42	C
ATOM	7903	N	ALA	C	603	10.961	87.750	5.641	1.00 37.55	C
ATOM	7904	CA	ALA	C	603	10.800	86.610	4.736	1.00 37.55	C
ATOM	7905	CB	ALA	C	603	11.384	86.915	3.400	1.00 37.88	C
ATOM	7906	C	ALA	C	603	11.526	85.422	5.347	1.00 37.55	C
ATOM	7907	O	ALA	C	603	10.990	84.327	5.409	1.00 37.55	C
ATOM	7908	N	ALA	C	604	12.768	85.651	5.752	1.00 99.65	C
ATOM	7909	CA	ALA	C	604	13.632	84.662	6.398	1.00 99.65	C
ATOM	7910	CB	ALA	C	604	13.520	84.811	7.935	1.00 51.23	C
ATOM	7911	C	ALA	C	604	13.500	83.201	6.037	1.00 99.65	C
ATOM	7912	O	ALA	C	604	13.322	82.809	4.881	1.00 99.65	C
ATOM	7913	N	ALA	C	605	13.580	82.417	7.108	1.00100.07	C
ATOM	7914	CA	ALA	C	605	13.532	80.962	7.128	1.00100.07	C
ATOM	7915	CB	ALA	C	605	14.319	80.356	5.950	1.00100.07	C
ATOM	7916	C	ALA	C	605	14.350	80.900	8.406	1.00100.07	C
ATOM	7917	O	ALA	C	605	14.036	80.155	9.343	1.00100.07	C
ATOM	7918	N	ALA	C	606	15.357	81.772	8.431	1.00100.07	C
ATOM	7919	CA	ALA	C	606	16.279	81.944	9.532	1.00100.07	C
ATOM	7920	CB	ALA	C	606	15.509	82.407	10.753	1.00100.07	C
ATOM	7921	C	ALA	C	606	17.170	80.760	9.906	1.00100.07	C
ATOM	7922	O	ALA	C	606	17.039	79.661	9.387	1.00100.07	C
ATOM	7923	N	ALA	C	607	18.112	81.070	10.800	1.00100.07	C
ATOM	7924	CA	ALA	C	607	19.116	80.162	11.399	1.00100.07	C
ATOM	7925	CB	ALA	C	607	18.754	78.710	11.132	1.00 71.68	C
ATOM	7926	C	ALA	C	607	20.571	80.410	10.979	1.00100.07	C
ATOM	7927	O	ALA	C	607	21.436	80.813	11.783	1.00100.07	C
ATOM	7928	N	ALA	C	608	20.829	80.153	9.706	1.00100.07	C
ATOM	7929	CA	ALA	C	608	22.144	80.336	9.139	1.00100.07	C
ATOM	7930	CB	ALA	C	608	22.712	78.971	8.757	1.00 17.73	C
ATOM	7931	C	ALA	C	608	22.065	81.250	7.935	1.00100.07	C
ATOM	7932	O	ALA	C	608	22.907	81.197	7.037	1.00100.07	C
ATOM	7933	N	ALA	C	609	21.039	82.091	7.903	1.00100.07	C
ATOM	7934	CA	ALA	C	609	20.835	83.005	6.778	1.00100.07	C
ATOM	7935	CB	ALA	C	609	20.646	82.208	5.488	1.00100.07	C
ATOM	7936	C	ALA	C	609	19.634	83.895	7.014	1.00100.07	C
ATOM	7937	O	ALA	C	609	18.568	83.684	6.407	1.00100.07	C
ATOM	7938	N	ALA	C	610	19.783	84.899	7.874	1.00 87.78	C
ATOM	7939	CA	ALA	C	610	18.669	85.774	8.200	1.00 87.78	C
ATOM	7940	CB	ALA	C	610	19.071	86.781	9.255	1.00 43.39	C
ATOM	7941	C	ALA	C	610	18.031	86.537	7.064	1.00 87.78	C
ATOM	7942	O	ALA	C	610	18.593	87.502	6.553	1.00 87.78	C



ATOM	7943	N	ALA	C	611	16.851	86.081	6.660	1.00	100.07	
ATOM	7944	CA	ALA	C	611	16.009	86.707	5.636	1.00	100.07	C
ATOM	7945	CB	ALA	C	611	14.871	87.498	6.311	1.00	39.23	C
ATOM	7946	C	ALA	C	611	16.626	87.588	4.565	1.00	100.07	C
ATOM	7947	O	ALA	C	611	17.848	87.598	4.307	1.00	100.07	C
ATOM	7948	N	ALA	C	612	15.733	88.331	3.928	1.00	99.99	C
ATOM	7949	CA	ALA	C	612	16.043	89.241	2.848	1.00	99.99	C
ATOM	7950	CB	ALA	C	612	15.416	88.711	1.572	1.00	59.80	C
ATOM	7951	C	ALA	C	612	15.451	90.595	3.225	1.00	99.99	C
ATOM	7952	O	ALA	C	612	15.919	91.649	2.780	1.00	99.99	C
ATOM	7953	N	ALA	C	613	14.446	90.562	4.102	1.00	84.37	C
ATOM	7954	CA	ALA	C	613	13.773	91.778	4.533	1.00	84.37	C
ATOM	7955	CB	ALA	C	613	14.670	92.551	5.454	1.00	97.27	C
ATOM	7956	C	ALA	C	613	13.474	92.580	3.265	1.00	84.37	C
ATOM	7957	O	ALA	C	613	14.145	93.557	2.948	1.00	84.37	C
ATOM	7958	N	ALA	C	614	12.463	92.131	2.536	1.00	99.71	C
ATOM	7959	CA	ALA	C	614	12.070	92.753	1.283	1.00	99.71	C
ATOM	7960	CB	ALA	C	614	11.047	91.865	0.572	1.00	98.58	C
ATOM	7961	C	ALA	C	614	11.504	94.160	1.499	1.00	99.71	C
ATOM	7962	O	ALA	C	614	10.311	94.409	1.300	1.00	99.71	C
ATOM	7963	N	ALA	C	615	12.374	95.086	1.896	1.00	100.07	C
ATOM	7964	CA	ALA	C	615	11.987	96.473	2.153	1.00	100.07	C
ATOM	7965	CB	ALA	C	615	13.136	97.195	2.835	1.00	80.06	C
ATOM	7966	C	ALA	C	615	11.587	97.193	0.875	1.00	100.07	C
ATOM	7967	O	ALA	C	615	10.970	96.598	-0.016	1.00	100.07	C
ATOM	7968	N	ALA	C	616	11.929	98.479	0.813	1.00	100.07	C
ATOM	7969	CA	ALA	C	616	11.643	99.332	-0.349	1.00	100.07	C
ATOM	7970	CB	ALA	C	616	11.801	100.814	0.017	1.00	100.07	C
ATOM	7971	C	ALA	C	616	12.614	98.970	-1.465	1.00	100.07	C
ATOM	7972	O	ALA	C	616	12.761	99.695	-2.447	1.00	100.07	C
ATOM	7973	N	ALA	C	617	13.293	97.845	-1.278	1.00	100.07	C
ATOM	7974	CA	ALA	C	617	14.248	97.335	-2.254	1.00	100.07	C
ATOM	7975	CB	ALA	C	617	15.671	97.762	-1.890	1.00	100.07	C
ATOM	7976	C	ALA	C	617	14.132	95.823	-2.244	1.00	100.07	C
ATOM	7977	O	ALA	C	617	13.599	95.239	-1.301	1.00	100.07	C
ATOM	7978	N	ALA	C	618	14.629	95.201	-3.307	1.00	100.07	C
ATOM	7979	CA	ALA	C	618	14.583	93.751	-3.454	1.00	100.07	C
ATOM	7980	CB	ALA	C	618	15.319	93.336	-4.737	1.00	100.07	C
ATOM	7981	C	ALA	C	618	15.174	93.027	-2.242	1.00	100.07	C
ATOM	7982	O	ALA	C	618	15.940	93.605	-1.470	1.00	100.07	C
ATOM	7983	N	ALA	C	619	14.798	91.760	-2.086	1.00	92.15	C</



ATOM	8027	O	ALA	C	627	32.518	79.419	15.508	1.00	41.98	C
ATOM	8028	N	ALA	C	628	32.190	81.636	15.245	1.00	100.07	C
ATOM	8029	CA	ALA	C	628	33.587	81.963	14.948	1.00	100.07	C
ATOM	8030	CB	ALA	C	628	33.709	83.422	14.600	1.00	100.07	C
ATOM	8031	C	ALA	C	628	34.554	81.621	16.070	1.00	100.07	C
ATOM	8032	O	ALA	C	628	34.253	80.755	16.890	1.00	100.07	C
ATOM	8033	N	ALA	C	629	35.713	82.283	16.119	1.00	24.80	C
ATOM	8034	CA	ALA	C	629	36.684	81.968	17.176	1.00	24.80	C
ATOM	8035	CB	ALA	C	629	37.117	80.502	17.042	1.00	66.11	C
ATOM	8036	C	ALA	C	629	37.919	82.863	17.237	1.00	24.80	C
ATOM	8037	O	ALA	C	629	37.807	84.089	17.159	1.00	24.80	C
ATOM	8038	N	ALA	C	630	39.076	82.212	17.420	1.00	99.68	C
ATOM	8039	CA	ALA	C	630	40.430	82.800	17.506	1.00	99.68	C
ATOM	8040	CB	ALA	C	630	41.170	82.533	16.194	1.00	88.40	C
ATOM	8041	C	ALA	C	630	40.564	84.291	17.899	1.00	99.68	C
ATOM	8042	O	ALA	C	630	39.715	85.096	17.542	1.00	99.68	C
ATOM	8043	N	ALA	C	631	41.660	84.652	18.584	1.00	60.35	C
ATOM	8044	CA	ALA	C	631	41.895	86.025	19.077	1.00	60.35	C
ATOM	8045	CB	ALA	C	631	41.838	87.057	17.936	1.00	5.07	C
ATOM	8046	C	ALA	C	631	40.702	86.171	19.989	1.00	60.35	C
ATOM	8047	O	ALA	C	631	40.819	86.388	21.200	1.00	60.35	C
ATOM	8048	N	ALA	C	632	39.551	86.027	19.349	1.00	100.07	C
ATOM	8049	CA	ALA	C	632	38.267	86.012	19.992	1.00	100.07	C
ATOM	8050	CB	ALA	C	632	37.161	86.033	18.954	1.00	5.07	C
ATOM	8051	C	ALA	C	632	38.366	84.635	20.599	1.00	100.07	C
ATOM	8052	O	ALA	C	632	37.631	83.731	20.210	1.00	100.07	C
ATOM	8053	N	ALA	C	633	39.322	84.463	21.506	1.00	100.07	C
ATOM	8054	CA	ALA	C	633	39.517	83.185	22.166	1.00	100.07	C
ATOM	8055	CB	ALA	C	633	40.373	83.372	23.399	1.00	46.63	C
ATOM	8056	C	ALA	C	633	38.140	82.628	22.541	1.00	100.07	C
ATOM	8057	O	ALA	C	633	37.993	81.436	22.813	1.00	100.07	C
ATOM	8058	N	ALA	C	634	37.139	83.510	22.537	1.00	86.54	C
ATOM	8059	CA	ALA	C	634	35.766	83.152	22.858	1.00	86.54	C
ATOM	8060	CB	ALA	C	634	35.220	84.115	23.902	1.00	100.07	C
ATOM	8061	C	ALA	C	634	34.854	83.137	21.619	1.00	86.54	C
ATOM	8062	O	ALA	C	634	34.893	84.039	20.783	1.00	86.54	C
ATOM	8063	N	ALA	C	635	34.034	82.094	21.525	1.00	19.09	C
ATOM	8064	CA	ALA	C	635	33.100	81.889	20.424	1.00	19.09	C
ATOM	8065	CB	ALA	C	635	32.201	80.710	20.742	1.00	100.07	C
ATOM	8066	C	ALA	C	635	32.258	83.115	20.163	1.00	19.09	C
ATOM	8067	O	ALA	C	635	31.335	83.387	20.914	1.00	19.09	C
ATOM	8068	N	ALA	C	636	32.545	83.831	19.082	1.00	11.13	C
ATOM	8069	CA	ALA	C	636	31.803	85.055	18.779	1.00	11.13	C
ATOM	8070	CB	ALA	C	636	32.768	86.193	18.415	1.00	57.46	C
ATOM	8071	C	ALA	C	636	30.774	84.902	17.697	1.00	11.13	C
ATOM	8072	O	ALA	C	636	30.923	85.469	16.610	1.00	11.13	C
ATOM	8073	N	ALA	C	637	29.713	84.183	18.049	1.00	99.58	C
ATOM	8074	CA	ALA	C	637	28.589	83.870	17.175	1.00	99.58	C
ATOM	8075	CB	ALA	C	637	28.088	82.484	17.515	1.00	21.95	C
ATOM	8076	C	ALA	C	637	27.417	84.849	17.223	1.00	99.58	C
ATOM	8077	O	ALA	C	637	26.987	85.274	18.292	1.00	99.58	C
ATOM	8078	N	ALA	C	638	26.894	85.187	16.051	1.00	53.59	C
ATOM	8079	CA	ALA	C	638	25.754	86.084	15.951	1.00	53.59	C
ATOM	8080	CB	ALA	C	638	25.761	86.768	14.566	1.00	12.66	C
ATOM	8081	C	ALA	C	638	24.525	85.164	16.123	1.00	53.59	C
ATOM	8082	O	ALA	C	638	24.686	83.937	16.078	1.00	53.59	C
ATOM	8083	N	ALA	C	639	23.322	85.723	16.337	1.00	64.18	C
ATOM	8084	CA	ALA	C	639	22.101	84.901	16.499	1.00	64.18	C
ATOM	8085	CB	ALA	C	639	21.651	84.896	17.941	1.00	5.07	C
ATOM	8086	C	ALA	C	639	20.905	85.232	15.600	1.00	64.18	C
ATOM	8087	O	ALA	C	639	21.040	85.302	14.376	1.00	64.18	C
ATOM	8088	N	ALA	C	640	19.733	85.433	16.198	1.00	81.73	C
ATOM	8089	CA	ALA	C	640	18.538	85.696	15.402	1.00	81.73	C
ATOM	8090	CB	ALA	C	640	17.832	84.368	15.146	1.00	6.94	C
ATOM	8091	C	ALA	C	640	17.545	86.735	15.965	1.00	81.73	C
ATOM	8092	O	ALA	C	640	17.739	87.266	17.055	1.00	81.73	C
ATOM	8093	N	ALA	C	641	16.490	87.031	15.200	1.00	100.07	C
ATOM	8094	CA	ALA	C	641	15.458	87.994	15.610	1.00	100.07	C
ATOM	8095	CB	ALA	C	641	15.698	89.335	14.941	1.00	89.32	C
ATOM	8096	C	ALA	C	641	14.010	87.515	15.350	1.00	100.07	C
ATOM	8097	O	ALA	C	641	13.554	86.581	16.007	1.00	100.07	C
ATOM	8098	N	ALA	C	642	13.286	88.127	14.406	1.00	100.07	C
ATOM	8099	CA	ALA	C	642	11.886	87.720	14.147	1.00	100.07	C
ATOM	8100	CB	ALA	C	642	10.940	88.852	14.547	1.00	100.07	C
ATOM	8101	C	ALA	C	642	11.543	87.248	12.726	1.00	100.07	C
ATOM	8102	O	ALA	C	642	12.437	86.988	11.924	1.00	100.07	C
ATOM	8103	N	ALA	C	643	10.245	87.144	12.421	1.00	99.66	C
ATOM	8104	CA	ALA	C	643	9.788	86.691	11.097	1.00	99.66	C
ATOM	8105	CB	ALA	C	643	9.862	85.175	11.024	1.00	9.74	C
ATOM	8106	C	ALA	C	643	8.376	87.150	10.691	1.00	99.66	C
ATOM	8107	O	ALA	C	643	7.386	86.502	11.039	1.00	99.66	C
ATOM	8108	N	ALA	C	644	8.306	88.250	9.936	1.00	96.96	C
ATOM	8109	CA	ALA	C	644	7.054	88.850	9.445	1.00	96.96	C
ATOM	8110	CB	ALA	C	644	5.916	87.825	9.444	1.00	78.40	C



ATOM	8111	C	ALA	C	644	6.634	90.091	10.240	1.00	96.96	
ATOM	8112	O	ALA	C	644	5.518	90.163	10.769	1.00	96.96	C
ATOM	8113	N	ALA	C	645	7.539	91.064	10.306	1.00100.07		C
ATOM	8114	CA	ALA	C	645	7.309	92.321	11.017	1.00100.07		C
ATOM	8115	CB	ALA	C	645	8.166	92.379	12.290	1.00100.07		C
ATOM	8116	C	ALA	C	645	7.677	93.476	10.094	1.00100.07		C
ATOM	8117	O	ALA	C	645	7.401	93.430	8.892	1.00100.07		C
ATOM	8118	N	ALA	C	646	8.315	94.501	10.652	1.00100.07		C
ATOM	8119	CA	ALA	C	646	8.714	95.655	9.861	1.00100.07		C
ATOM	8120	CB	ALA	C	646	7.475	96.434	9.430	1.00100.07		C
ATOM	8121	C	ALA	C	646	9.645	96.548	10.663	1.00100.07		C
ATOM	8122	O	ALA	C	646	9.238	97.117	11.669	1.00100.07		C
ATOM	8123	N	ALA	C	647	10.893	96.659	10.218	1.00100.07		C
ATOM	8124	CA	ALA	C	647	11.902	97.489	10.877	1.00100.07		C
ATOM	8125	CB	ALA	C	647	11.552	98.993	10.715	1.00	43.12	C
ATOM	8126	C	ALA	C	647	12.127	97.153	12.357	1.00100.07		C
ATOM	8127	O	ALA	C	647	13.271	97.110	12.819	1.00100.07		C
ATOM	8128	N	ALA	C	648	11.047	96.902	13.096	1.00100.07		C
ATOM	8129	CA	ALA	C	648	11.142	96.590	14.521	1.00100.07		C
ATOM	8130	CB	ALA	C	648	12.314	95.638	14.784	1.00100.07		C
ATOM	8131	C	ALA	C	648	11.365	97.907	15.260	1.00100.07		C
ATOM	8132	O	ALA	C	648	12.443	98.480	15.175	1.00100.07		C
ATOM	8133	N	ALA	C	649	10.356	98.377	15.990	1.00100.07		C
ATOM	8134	CA	ALA	C	649	10.475	99.652	16.710	1.00100.07		C
ATOM	8135	CB	ALA	C	649	9.850	100.778	15.858	1.00100.07		C
ATOM	8136	C	ALA	C	649	9.920	99.720	18.147	1.00100.07		C
ATOM	8137	O	ALA	C	649	9.275	100.708	18.528	1.00100.07		C
ATOM	8138	N	ALA	C	650	10.164	98.689	18.947	1.00100.07		C
ATOM	8139	CA	ALA	C	650	9.689	98.712	20.325	1.00100.07		C
ATOM	8140	CB	ALA	C	650	9.852	97.344	20.963	1.00100.07		C
ATOM	8141	C	ALA	C	650	10.494	99.769	21.098	1.00100.07		C
ATOM	8142	O	ALA	C	650	9.979	100.438	22.001	1.00100.07		C
ATOM	8143	N	ALA	C	651	11.762	99.912	20.721	1.00100.07		C
ATOM	8144	CA	ALA	C	651	12.680	100.885	21.319	1.00100.07		C
ATOM	8145	CB	ALA	C	651	13.060	100.461	22.755	1.00	68.86	C
ATOM	8146	C	ALA	C	651	13.922	100.944	20.414	1.00100.07		C
ATOM	8147	O	ALA	C	651	14.869	101.710	20.662	1.00100.07		C
ATOM	8148	N	GLY	C	552	13.879	100.131	19.354	1.00100.07		C
ATOM	8149	CA	GLY	C	552	14.961	100.048	18.381	1.00100.07		C
ATOM	8150	C	GLY	C	552	14.658	99.059	17.252	1.00100.07		C
ATOM	8151	O	GLY	C	552	13.848	98.137	17.427	1.00100.07		



ATOM	8195	CA	PRO	C	659	28.013	88.167	21.325	1.00	25.56	
ATOM	8196	CB	PRO	C	659	29.435	88.553	20.967	1.00	65.06	
ATOM	8197	CG	PRO	C	659	29.270	89.992	20.657	1.00	70.81	
ATOM	8198	C	PRO	C	659	27.669	88.551	22.753	1.00	25.56	
ATOM	8199	O	PRO	C	659	28.353	88.138	23.690	1.00	25.56	
ATOM	8200	N	ALA	C	660	26.634	89.357	22.934	1.00	72.37	
ATOM	8201	CA	ALA	C	660	26.241	89.754	24.279	1.00	72.37	
ATOM	8202	CB	ALA	C	660	27.325	90.609	24.912	1.00	11.08	
ATOM	8203	C	ALA	C	660	24.933	90.509	24.254	1.00	72.37	
ATOM	8204	O	ALA	C	660	24.361	90.818	25.293	1.00	72.37	
ATOM	8205	N	SER	C	661	24.451	90.816	23.065	1.00	88.91	
ATOM	8206	CA	SER	C	661	23.209	91.539	22.998	1.00	88.91	
ATOM	8207	CB	SER	C	661	22.787	91.776	21.554	1.00	73.45	
ATOM	8208	OG	SER	C	661	22.669	90.543	20.875	1.00	73.45	
ATOM	8209	C	SER	C	661	22.138	90.756	23.715	1.00	88.91	
ATOM	8210	O	SER	C	661	21.669	89.721	23.238	1.00	88.91	
ATOM	8211	N	GLU	C	662	21.789	91.230	24.903	1.00	99.95	
ATOM	8212	CA	GLU	C	662	20.702	90.610	25.624	1.00	99.95	
ATOM	8213	CB	GLU	C	662	20.658	91.047	27.097	1.00	100.07	
ATOM	8214	CG	GLU	C	662	20.078	89.978	28.037	1.00	100.07	
ATOM	8215	CD	GLU	C	662	18.634	89.639	27.735	1.00	100.07	
ATOM	8216	OE1	GLU	C	662	17.777	90.537	27.881	1.00	100.07	
ATOM	8217	OE2	GLU	C	662	18.353	88.482	27.352	1.00	100.07	
ATOM	8218	C	GLU	C	662	19.653	91.330	24.803	1.00	99.95	
ATOM	8219	O	GLU	C	662	18.768	92.007	25.319	1.00	99.95	
ATOM	8220	N	GLU	C	663	19.816	91.202	23.492	1.00	42.52	
ATOM	8221	CA	GLU	C	663	18.943	91.832	22.537	1.00	42.52	
ATOM	8222	CB	GLU	C	663	17.481	91.645	22.955	1.00	100.07	
ATOM	8223	CG	GLU	C	663	17.078	90.185	23.126	1.00	100.07	
ATOM	8224	CD	GLU	C	663	15.632	90.013	23.557	1.00	100.07	
ATOM	8225	OE1	GLU	C	663	14.958	91.020	23.869	1.00	100.07	
ATOM	8226	OE2	GLU	C	663	15.168	88.857	23.589	1.00	100.07	
ATOM	8227	C	GLU	C	663	19.321	93.293	22.563	1.00	42.52	
ATOM	8228	O	GLU	C	663	18.893	94.024	23.448	1.00	42.52	
ATOM	8229	N	GLY	C	664	20.163	93.697	21.619	1.00	65.62	
ATOM	8230	CA	GLY	C	664	20.585	95.084	21.529	1.00	65.62	
ATOM	8231	C	GLY	C	664	21.279	95.676	22.746	1.00	65.62	
ATOM	8232	O	GLY	C	664	22.170	96.515	22.602	1.00	65.62	
ATOM	8233	N	PHE	C	665	20.867	95.277	23.945	1.00	23.68	
ATOM	8234	CA	PHE	C	665	21.488	95.800	25.141	1.00	23.68	
ATOM	8235	CB	PHE	C	665	20.546	95.667	26.329			



ATOM	8279	CA	ASN	C	671	23.124	88.903	37.184	1.00	55.65	C
ATOM	8280	CB	ASN	C	671	22.488	90.304	37.237	1.00	36.47	C
ATOM	8281	CG	ASN	C	671	21.422	90.517	36.171	1.00	36.47	C
ATOM	8282	OD1	ASN	C	671	21.022	89.585	35.474	1.00	36.47	C
ATOM	8283	ND2	ASN	C	671	20.953	91.752	36.046	1.00	36.47	C
ATOM	8284	C	ASN	C	671	22.225	87.903	37.930	1.00	55.65	C
ATOM	8285	O	ASN	C	671	21.169	87.513	37.436	1.00	55.65	C
ATOM	8286	N	VAL	C	672	22.657	87.500	39.125	1.00	60.20	C
ATOM	8287	CA	VAL	C	672	21.907	86.553	39.950	1.00	60.20	C
ATOM	8288	CB	VAL	C	672	22.636	85.198	40.078	1.00	49.89	C
ATOM	8289	CG1	VAL	C	672	22.828	84.575	38.710	1.00	49.89	C
ATOM	8290	CG2	VAL	C	672	23.966	85.383	40.772	1.00	49.89	C
ATOM	8291	C	VAL	C	672	21.648	87.088	41.360	1.00	60.20	C
ATOM	8292	O	VAL	C	672	22.086	88.185	41.708	1.00	60.20	C
ATOM	8293	N	LEU	C	673	20.950	86.297	42.172	1.00	44.28	C
ATOM	8294	CA	LEU	C	673	20.599	86.692	43.532	1.00	44.28	C
ATOM	8295	CB	LEU	C	673	19.350	85.928	43.978	1.00	43.43	C
ATOM	8296	CG	LEU	C	673	18.399	86.621	44.956	1.00	43.43	C
ATOM	8297	CD1	LEU	C	673	17.069	85.881	45.034	1.00	43.43	C
ATOM	8298	CD2	LEU	C	673	19.064	86.685	46.304	1.00	43.43	C
ATOM	8299	C	LEU	C	673	21.754	86.455	44.493	1.00	44.28	C
ATOM	8300	O	LEU	C	673	22.061	85.324	44.864	1.00	44.28	C
ATOM	8301	N	VAL	C	674	22.371	87.551	44.910	1.00	15.07	C
ATOM	8302	CA	VAL	C	674	23.531	87.527	45.783	1.00	15.07	C
ATOM	8303	CB	VAL	C	674	24.529	88.604	45.331	1.00	100.07	C
ATOM	8304	CG1	VAL	C	674	25.701	88.670	46.287	1.00	100.07	C
ATOM	8305	CG2	VAL	C	674	24.998	88.313	43.917	1.00	100.07	C
ATOM	8306	C	VAL	C	574	23.284	87.728	47.265	1.00	15.07	C
ATOM	8307	O	VAL	C	674	22.549	88.621	47.663	1.00	15.07	C
ATOM	8308	N	ALA	C	675	23.913	86.903	48.090	1.00	32.76	C
ATOM	8309	CA	ALA	C	675	23.785	87.047	49.534	1.00	32.76	C
ATOM	8310	CB	ALA	C	675	23.792	85.690	50.203	1.00	72.15	C
ATOM	8311	C	ALA	C	675	25.036	87.831	49.911	1.00	32.76	C
ATOM	8312	O	ALA	C	675	25.918	88.006	49.064	1.00	32.76	C
ATOM	8313	N	ILE	C	676	25.130	88.305	51.155	1.00	19.32	C
ATOM	8314	CA	ILE	C	676	26.312	89.062	51.571	1.00	19.32	C
ATOM	8315	CB	ILE	C	676	26.072	90.593	51.550	1.00	5.39	C
ATOM	8316	CG2	ILE	C	676	27.194	91.287	52.235	1.00	5.39	C
ATOM	8317	CG1	ILE	C	676	25.994	91.115	50.107	1.00	5.39	C
ATOM	8318	CD	ILE	C	676	25.831	92.648	49.974	1.00	5.39	C
ATOM	8319	C	ILE	C	676	26.653	88.688	52.979	1.00	19.32	C
ATOM	8320	O	ILE	C	676	26.248	89.380	53.885	1.00	19.32	C
ATOM	8321	N	MET	C	677	27.401	87.611	53.173	1.00	20.03	C
ATOM	8322	CA	MET	C	677	27.769	87.180	54.521	1.00	20.03	C
ATOM	8323	CB	MET	C	677	26.571	86.531	55.174	1.00	33.10	C
ATOM	8324	CG	MET	C	677	25.752	85.732	54.199	1.00	33.10	C
ATOM	8325	SD	MET	C	677	24.619	84.686	55.075	1.00	33.10	C
ATOM	8326	CE	MET	C	677	25.749	83.629	56.015	1.00	33.10	C
ATOM	8327	C	MET	C	677	28.961	86.224	54.556	1.00	20.03	C
ATOM	8328	O	MET	C	677	29.150	85.397	53.668	1.00	20.03	C
ATOM	8329	N	PRO	C	678	29.800	86.337	55.581	1.00	42.63	C
ATOM	8330	CD	PRO	C	678	29.751	87.187	56.779	1.00	15.40	C
ATOM	8331	CA	PRO	C	678	30.947	85.430	55.633	1.00	42.63	C
ATOM	8332	CB	PRO	C	678	31.701	85.907	56.872	1.00	15.40	C
ATOM	8333	CG	PRO	C	678	30.601	86.393	57.759	1.00	15.40	C
ATOM	8334	C	PRO	C	678	30.482	83.992	55.769	1.00	42.63	C
ATOM	8335	O	PRO	C	678	29.890	83.644	56.786	1.00	42.63	C
ATOM	8336	N	PHE	C	679	30.740	83.157	54.762	1.00	29.34	C
ATOM	8337	CA	PHE	C	679	30.322	81.747	54.828	1.00	29.34	C
ATOM	8338	CB	PHE	C	679	29.673	81.313	53.494	1.00	50.07	C
ATOM	8339	CG	PHE	C	679	28.584	80.269	53.648	1.00	50.07	C
ATOM	8340	CD1	PHE	C	679	27.287	80.638	53.969	1.00	50.07	C
ATOM	8341	CD2	PHE	C	679	28.869	78.920	53.504	1.00	50.07	C
ATOM	8342	CE1	PHE	C	679	26.292	79.676	54.150	1.00	50.07	C
ATOM	8343	CE2	PHE	C	679	27.883	77.959	53.683	1.00	50.07	C
ATOM	8344	CZ	PHE	C	679	26.595	78.335	54.008	1.00	50.07	C
ATOM	8345	C	PHE	C	679	31.490	80.802	55.176	1.00	29.34	C
ATOM	8346	O	PHE	C	679	32.302	80.457	54.324	1.00	29.34	C
ATOM	8347	N	ASP	C	680	31.554	80.401	56.440	1.00	14.67	C
ATOM	8348	CA	ASP	C	680	32.582	79.508	56.967	1.00	14.67	C
ATOM	8349	CB	ASP	C	680	32.037	78.085	57.041	1.00	41.08	C
ATOM	8350	CG	ASP	C	680	30.826	77.970	57.936	1.00	41.08	C
ATOM	8351	OD1	ASP	C	680	29.786	78.574	57.598	1.00	41.08	C
ATOM	8352	OD2	ASP	C	680	30.916	77.275	58.971	1.00	41.08	C
ATOM	8353	C	ASP	C	680	33.969	79.454	56.320	1.00	14.67	C
ATOM	8354	O	ASP	C	680	34.714	78.520	56.579	1.00	14.67	C
ATOM	8355	N	GLY	C	681	34.331	80.435	55.502	1.00	31.79	C
ATOM	8356	CA	GLY	C	681	35.654	80.420	54.892	1.00	31.79	C
ATOM	8357	C	GLY	C	681	35.663	80.347	53.377	1.00	31.79	C
ATOM	8358	O	GLY	C	681	36.491	80.959	52.698	1.00	31.79	C
ATOM	8359	N	TYR	C	682	34.716	79.598	52.840	1.00	19.16	C
ATOM	8360	CA	TYR	C	682	34.627	79.429	51.419	1.00	19.16	C
ATOM	8361	CB	TYR	C	682	33.422	78.546	51.110	1.00	28.99	C
ATOM	8362	CG	TYR	C	682	33.624	77.236	51.847	1.00	28.99	C



ATOM	8363	CD1	TYR	C	682	34.634	76.349	51.472	1.00	28.99	C
ATOM	8364	CE1	TYR	C	682	35.004	75.281	52.293	1.00	28.99	C
ATOM	8365	CD2	TYR	C	682	32.981	76.995	53.055	1.00	28.99	C
ATOM	8366	CE2	TYR	C	682	33.346	75.934	53.874	1.00	28.99	C
ATOM	8367	CZ	TYR	C	682	34.356	75.092	53.493	1.00	28.99	C
ATOM	8368	OH	TYR	C	682	34.727	74.087	54.349	1.00	28.99	C
ATOM	8369	C	TYR	C	682	34.615	80.776	50.760	1.00	19.16	C
ATOM	8370	O	TYR	C	682	34.868	80.878	49.562	1.00	19.16	C
ATOM	8371	N	ASN	C	683	34.361	81.827	51.535	1.00	18.87	C
ATOM	8372	CA	ASN	C	683	34.411	83.170	50.964	1.00	18.87	C
ATOM	8373	CB	ASN	C	683	33.009	83.791	50.764	1.00	62.59	C
ATOM	8374	CG	ASN	C	683	32.288	84.097	52.062	1.00	62.59	C
ATOM	8375	OD1	ASN	C	683	32.728	83.699	53.140	1.00	62.59	C
ATOM	8376	ND2	ASN	C	683	31.156	84.802	51.958	1.00	62.59	C
ATOM	8377	C	ASN	C	683	35.286	84.055	51.812	1.00	18.87	C
ATOM	8378	O	ASN	C	683	34.949	85.193	52.092	1.00	18.87	C
ATOM	8379	N	PHE	C	684	36.417	83.492	52.225	1.00	40.54	C
ATOM	8380	CA	PHE	C	684	37.444	84.179	53.014	1.00	40.54	C
ATOM	8381	CB	PHE	C	684	38.366	83.120	53.608	1.00	13.84	C
ATOM	8382	CG	PHE	C	684	39.643	83.642	54.244	1.00	13.84	C
ATOM	8383	CD1	PHE	C	684	39.729	83.816	55.619	1.00	13.84	C
ATOM	8384	CD2	PHE	C	684	40.807	83.761	53.490	1.00	13.84	C
ATOM	8385	CE1	PHE	C	684	40.944	84.074	56.227	1.00	13.84	C
ATOM	8386	CE2	PHE	C	684	42.026	84.022	54.103	1.00	13.84	C
ATOM	8387	CZ	PHE	C	684	42.089	84.172	55.473	1.00	13.84	C
ATOM	8388	C	PHE	C	684	38.187	85.042	51.997	1.00	40.54	C
ATOM	8389	O	PHE	C	684	38.327	84.661	50.837	1.00	40.54	C
ATOM	8390	N	GLU	C	685	38.674	86.200	52.408	1.00	88.25	C
ATOM	8391	CA	GLU	C	685	39.337	87.056	51.442	1.00	88.25	C
ATOM	8392	CB	GLU	C	685	40.546	86.360	50.829	1.00	83.88	C
ATOM	8393	CG	GLU	C	685	41.750	86.366	51.732	1.00	83.88	C
ATOM	8394	CD	GLU	C	685	42.012	87.736	52.332	1.00	83.88	C
ATOM	8395	OE1	GLU	C	685	41.819	88.745	51.623	1.00	83.88	C
ATOM	8396	OE2	GLU	C	685	42.418	87.807	53.511	1.00	83.88	C
ATOM	8397	C	GLU	C	685	38.317	87.365	50.358	1.00	88.25	C
ATOM	8398	O	GLU	C	685	37.157	87.658	50.661	1.00	88.25	C
ATOM	8399	N	ASP	C	686	38.723	87.280	49.097	1.00	55.13	C
ATOM	8400	CA	ASP	C	686	37.788	87.591	48.028	1.00	55.13	C
ATOM	8401	CB	ASP	C	686	38.470	88.488	46.995	1.00	100.07	C
ATOM	8402	CG	ASP	C	686	38.885	89.830	47.577	1.00	100.07	C
ATOM	8403	OD1	ASP	C	686	38.008	90.556	48.093	1.00	100.07	C
ATOM	8404	OD2	ASP	C	686	40.088	90.158	47.518	1.00	100.07	C
ATOM	8405	C	ASP	C	686	37.161	86.368	47.355	1.00	55.13	C
ATOM	8406	O	ASP	C	686	36.494	86.488	46.316	1.00	55.13	C
ATOM	8407	N	ALA	C	687	37.368	85.192	47.946	1.00	61.11	C
ATOM	8408	CA	ALA	C	687	36.784	83.972	47.400	1.00	61.11	C
ATOM	8409	CB	ALA	C	687	37.206	82.785	48.210	1.00	31.25	C
ATOM	8410	C	ALA	C	687	35.267	84.128	47.446	1.00	61.11	C
ATOM	8411	O	ALA	C	687	34.726	84.789	48.334	1.00	61.11	C
ATOM	8412	N	ILE	C	688	34.583	83.500	46.500	1.00	23.75	C
ATOM	8413	CA	ILE	C	688	33.139	83.615	46.407	1.00	23.75	C
ATOM	8414	CB	ILE	C	688	32.785	84.463	45.224	1.00	35.11	C
ATOM	8415	CG2	ILE	C	688	31.292	84.628	45.144	1.00	35.11	C
ATOM	8416	CG1	ILE	C	688	33.543	85.776	45.314	1.00	35.11	C
ATOM	8417	CD	ILE	C	688	33.348	86.641	44.117	1.00	35.11	C
ATOM	8418	C	ILE	C	688	32.447	82.293	46.199	1.00	23.75	C
ATOM	8419	O	ILE	C	688	32.639	81.676	45.162	1.00	23.75	C
ATOM	8420	N	VAL	C	689	31.620	81.872	47.146	1.00	15.37	C
ATOM	8421	CA	VAL	C	689	30.903	80.607	47.014	1.00	15.37	C
ATOM	8422	CB	VAL	C	689	30.151	80.301	48.300	1.00	12.44	C
ATOM	8423	CG1	VAL	C	689	29.438	78.980	48.168	1.00	12.44	C
ATOM	8424	CG2	VAL	C	689	31.112	80.264	49.464	1.00	12.44	C
ATOM	8425	C	VAL	C	689	29.887	80.589	45.840	1.00	15.37	C
ATOM	8426	O	VAL	C	689	29.391	81.638	45.440	1.00	15.37	C
ATOM	8427	N	ILE	C	690	29.590	79.414	45.276	1.00	38.82	C
ATOM	8428	CA	ILE	C	690	28.607	79.326	44.186	1.00	38.82	C
ATOM	8429	CB	ILE	C	690	29.187	78.832	42.835	1.00	64.94	C
ATOM	8430	CG2	ILE	C	690	28.147	79.006	41.753	1.00	64.94	C
ATOM	8431	CG1	ILE	C	690	30.395	79.633	42.390	1.00	64.94	C
ATOM	8432	CD	ILE	C	690	30.920	79.167	41.030	1.00	64.94	C
ATOM	8433	C	ILE	C	690	27.546	78.283	44.530	1.00	38.82	C
ATOM	8434	O	ILE	C	690	27.840	77.301	45.231	1.00	38.82	C
ATOM	8435	N	SER	C	691	26.324	78.495	44.019	1.00	26.09	C
ATOM	8436	CA	SER	C	691	25.208	77.555	44.206	1.00	26.09	C
ATOM	8437	CB	SER	C	691	23.880	78.275	44.414	1.00	77.43	C
ATOM	8438	OG	SER	C	691	22.809	77.362	44.232	1.00	77.43	C
ATOM	8439	C	SER	C	691	25.093	76.694	42.954	1.00	26.09	C
ATOM	8440	O	SER	C	691	24.718	77.173	41.885	1.00	26.09	C
ATOM	8441	N	GLU	C	692	25.429	75.422	43.117	1.00	5.07	C
ATOM	8442	CA	GLU	C	692	25.418	74.442	42.055	1.00	5.07	C
ATOM	8443	CB	GLU	C	692	25.182	73.065	42.660	1.00	41.10	C
ATOM	8444	CG	GLU	C	692	25.056	71.944	41.668	1.00	41.10	C
ATOM	8445	CD	GLU	C	692	25.390	70.606	42.289	1.00	41.10	C
ATOM	8446	OE1	GLU	C	692	24.959	70.356	43.429	1.00	41.10	C



ATOM	8447	OE2	GLU	C	692	26.079	69.798	41.639	1.00	41.10	C
ATOM	8448	C	GLU	C	692	24.390	74.747	40.994	1.00	5.07	C
ATOM	8449	O	GLU	C	692	24.638	74.546	39.809	1.00	5.07	C
ATOM	8450	N	GLU	C	693	23.243	75.261	41.417	1.00	37.66	C
ATOM	8451	CA	GLU	C	693	22.179	75.576	40.477	1.00	37.66	C
ATOM	8452	CB	GLU	C	693	21.149	76.493	41.140	1.00	74.69	C
ATOM	8453	CG	GLU	C	693	19.718	76.122	40.808	1.00	74.69	C
ATOM	8454	CD	GLU	C	693	19.369	74.712	41.257	1.00	74.69	C
ATOM	8455	OE1	GLU	C	693	20.030	73.749	40.808	1.00	74.69	C
ATOM	8456	OE2	GLU	C	693	18.432	74.561	42.064	1.00	74.69	C
ATOM	8457	C	GLU	C	693	22.688	76.199	39.163	1.00	37.66	C
ATOM	8458	O	GLU	C	693	22.480	75.636	38.090	1.00	37.66	C
ATOM	8459	N	LEU	C	694	23.365	77.345	39.244	1.00	30.35	C
ATOM	8460	CA	LEU	C	694	23.887	78.019	38.047	1.00	30.35	C
ATOM	8461	CB	LEU	C	694	24.924	79.084	38.435	1.00	24.48	C
ATOM	8462	CG	LEU	C	694	24.530	80.143	39.461	1.00	24.48	C
ATOM	8463	CD1	LEU	C	694	25.612	81.220	39.574	1.00	24.48	C
ATOM	8464	CD2	LEU	C	694	23.226	80.765	39.022	1.00	24.48	C
ATOM	8465	C	LEU	C	694	24.539	77.014	37.089	1.00	30.35	C
ATOM	8466	O	LEU	C	694	24.555	77.198	35.867	1.00	30.35	C
ATOM	8467	N	ALA	C	695	25.094	75.957	37.662	1.00	18.21	C
ATOM	8468	CA	ALA	C	695	25.739	74.948	36.864	1.00	18.21	C
ATOM	8469	CB	ALA	C	695	26.728	74.141	37.736	1.00	5.07	C
ATOM	8470	C	ALA	C	695	24.599	74.081	36.344	1.00	18.21	C
ATOM	8471	O	ALA	C	695	24.553	73.750	35.155	1.00	18.21	C
ATOM	8472	N	ALA	C	696	23.664	73.748	37.236	1.00	37.13	C
ATOM	8473	CA	ALA	C	696	22.507	72.924	36.887	1.00	37.13	C
ATOM	8474	CB	ALA	C	696	21.666	72.630	38.131	1.00	5.07	C
ATOM	8475	C	ALA	C	696	21.678	73.627	35.812	1.00	37.13	C
ATOM	8476	O	ALA	C	696	21.115	72.976	34.943	1.00	37.13	C
ATOM	8477	N	ARG	C	697	21.584	74.950	35.875	1.00	78.06	C
ATOM	8478	CA	ARG	C	697	20.881	75.688	34.830	1.00	78.06	C
ATOM	8479	CB	ARG	C	697	20.485	77.090	35.300	1.00	67.10	C
ATOM	8480	CG	ARG	C	697	19.715	77.116	36.617	1.00	67.10	C
ATOM	8481	CD	ARG	C	697	18.453	77.963	36.515	1.00	67.10	C
ATOM	8482	NE	ARG	C	697	18.659	79.355	36.904	1.00	67.10	C
ATOM	8483	CZ	ARG	C	697	18.069	80.388	36.308	1.00	67.10	C
ATOM	8484	NH1	ARG	C	697	17.239	80.186	35.280	1.00	67.10	C
ATOM	8485	NH2	ARG	C	697	18.295	81.621	36.751	1.00	67.10	C
ATOM	8486	C	ARG	C	697	22.061	75.791	33.893	1.00	78.06	C
ATOM	8487	O	ARG	C	697	23.192	75.662	34.354	1.00	78.06	C
ATOM	8488	N	ASP	C	698	21.858	75.996	32.599	1.00	49.34	C
ATOM	8489	CA	ASP	C	698	23.042	76.096	31.756	1.00	49.34	C
ATOM	8490	CB	ASP	C	698	22.773	75.619	30.332	1.00	70.47	C
ATOM	8491	CG	ASP	C	698	23.540	74.349	29.999	1.00	70.47	C
ATOM	8492	OD1	ASP	C	698	24.680	74.205	30.499	1.00	70.47	C
ATOM	8493	OD2	ASP	C	698	23.012	73.506	29.237	1.00	70.47	C
ATOM	8494	C	ASP	C	698	23.542	77.524	31.757	1.00	49.34	C
ATOM	8495	O	ASP	C	698	23.818	78.107	30.716	1.00	49.34	C
ATOM	8496	N	PHE	C	699	23.674	78.064	32.963	1.00	70.88	C
ATOM	8497	CA	PHE	C	699	24.128	79.429	33.167	1.00	70.88	C
ATOM	8498	CB	PHE	C	699	24.091	79.798	34.652	1.00	48.70	C
ATOM	8499	CG	PHE	C	699	23.152	80.930	34.968	1.00	48.70	C
ATOM	8500	CD1	PHE	C	699	21.864	80.678	35.431	1.00	48.70	C
ATOM	8501	CD2	PHE	C	699	23.554	82.250	34.793	1.00	48.70	C
ATOM	8502	CE1	PHE	C	699	20.998	81.716	35.713	1.00	48.70	C
ATOM	8503	CE2	PHE	C	699	22.692	83.291	35.073	1.00	48.70	C
ATOM	8504	CZ	PHE	C	699	21.411	83.021	35.536	1.00	48.70	C
ATOM	8505	C	PHE	C	699	25.512	79.718	32.638	1.00	70.88	C
ATOM	8506	O	PHE	C	699	25.871	79.311	31.537	1.00	70.88	C
ATOM	8507	N	TYR	C	700	26.271	80.436	33.457	1.00	47.29	C
ATOM	8508	CA	TYR	C	700	27.624	80.871	33.151	1.00	47.29	C
ATOM	8509	CB	TYR	C	700	28.431	80.951	34.451	1.00	41.89	C
ATOM	8510	CG	TYR	C	700	28.040	82.145	35.294	1.00	41.89	C
ATOM	8511	CD1	TYR	C	700	28.574	82.343	36.562	1.00	41.89	C
ATOM	8512	CE1	TYR	C	700	28.198	83.452	37.334	1.00	41.89	C
ATOM	8513	CD2	TYR	C	700	27.119	83.088	34.817	1.00	41.89	C
ATOM	8514	CE2	TYR	C	700	26.740	84.195	35.587	1.00	41.89	C
ATOM	8515	CZ	TYR	C	700	27.285	84.363	36.834	1.00	41.89	C
ATOM	8516	OH	TYR	C	700	26.914	85.447	37.572	1.00	41.89	C
ATOM	8517	C	TYR	C	700	28.421	80.138	32.081	1.00	47.29	C
ATOM	8518	O	TYR	C	700	29.404	80.686	31.579	1.00	47.29	C
ATOM	8519	N	THR	C	701	28.020	78.916	31.734	1.00	21.71	C
ATOM	8520	CA	THR	C	701	28.710	78.156	30.700	1.00	21.71	C
ATOM	8521	CB	THR	C	701	27.838	77.003	30.204	1.00	56.54	C
ATOM	8522	OG1	THR	C	701	26.583	77.513	29.742	1.00	56.54	C
ATOM	8523	CG2	THR	C	701	27.596	76.020	31.327	1.00	56.54	C
ATOM	8524	C	THR	C	701	29.072	79.063	29.512	1.00	21.71	C
ATOM	8525	O	THR	C	701	28.208	79.751	28.955	1.00	21.71	C
ATOM	8526	N	SER	C	702	30.362	79.065	29.158	1.00	45.58	C
ATOM	8527	CA	SER	C	702	30.906	79.872	28.060	1.00	45.58	C
ATOM	8528	CB	SER	C	702	31.925	80.872	28.604	1.00	89.52	C
ATOM	8529	OG	SER	C	702	32.947	80.210	29.330	1.00	89.52	C
ATOM	8530	C	SER	C	702	31.590	78.965	27.045	1.00	45.58	C



ATOM	8531	O	SER	C	702	32.369	78.085	27.428	1.00	45.58	C
ATOM	8532	N	ILE	C	703	31.315	79.189	25.759	1.00	22.39	C
ATOM	8533	CA	ILE	C	703	31.883	78.362	24.696	1.00	22.39	C
ATOM	8534	CB	ILE	C	703	30.898	78.228	23.545	1.00	67.44	C
ATOM	8535	CG2	ILE	C	703	31.615	77.685	22.327	1.00	67.44	C
ATOM	8536	CG1	ILE	C	703	29.733	77.331	23.962	1.00	67.44	C
ATOM	8537	CD	ILE	C	703	28.625	77.228	22.922	1.00	67.44	C
ATOM	8538	C	ILE	C	703	33.191	78.881	24.116	1.00	22.39	C
ATOM	8539	O	ILE	C	703	33.252	80.028	23.679	1.00	22.39	C
ATOM	8540	N	HIS	C	704	34.219	78.030	24.073	1.00	45.20	C
ATOM	8541	CA	HIS	C	704	35.522	78.431	23.537	1.00	45.20	C
ATOM	8542	CB	HIS	C	704	36.554	78.432	24.659	1.00	100.07	C
ATOM	8543	CG	HIS	C	704	36.214	79.360	25.785	1.00	100.07	C
ATOM	8544	CD2	HIS	C	704	36.807	80.500	26.213	1.00	100.07	C
ATOM	8545	ND1	HIS	C	704	35.143	79.148	26.626	1.00	100.07	C
ATOM	8546	CE1	HIS	C	704	35.093	80.116	27.527	1.00	100.07	C
ATOM	8547	NE2	HIS	C	704	36.093	80.949	27.297	1.00	100.07	C
ATOM	8548	C	HIS	C	704	36.011	77.590	22.337	1.00	45.20	C
ATOM	8549	O	HIS	C	704	35.769	76.387	22.260	1.00	45.20	C
ATOM	8550	N	ILE	C	705	36.730	78.237	21.420	1.00	15.98	C
ATOM	8551	CA	ILE	C	705	37.191	77.603	20.191	1.00	15.98	C
ATOM	8552	CB	ILE	C	705	36.301	78.039	19.052	1.00	14.22	C
ATOM	8553	CG2	ILE	C	705	36.793	77.477	17.763	1.00	14.22	C
ATOM	8554	CG1	ILE	C	705	34.877	77.633	19.321	1.00	14.22	C
ATOM	8555	CD	ILE	C	705	33.946	78.211	18.296	1.00	14.22	C
ATOM	8556	C	ILE	C	705	38.601	77.953	19.719	1.00	15.98	C
ATOM	8557	O	ILE	C	705	38.815	79.066	19.224	1.00	15.98	C
ATOM	8558	N	GLU	C	706	39.561	77.039	19.808	1.00	60.09	C
ATOM	8559	CA	GLU	C	706	40.865	77.411	19.288	1.00	60.09	C
ATOM	8560	CB	GLU	C	706	41.907	77.489	20.387	1.00	99.45	C
ATOM	8561	CG	GLU	C	706	42.925	78.553	20.032	1.00	99.45	C
ATOM	8562	CD	GLU	C	706	42.359	79.560	19.022	1.00	99.45	C
ATOM	8563	OE1	GLU	C	706	41.317	80.195	19.306	1.00	99.45	C
ATOM	8564	OE2	GLU	C	706	42.951	79.707	17.934	1.00	99.45	C
ATOM	8565	C	GLU	C	706	41.354	76.526	18.160	1.00	60.09	C
ATOM	8566	O	GLU	C	706	40.903	75.398	18.042	1.00	60.09	C
ATOM	8567	N	ARG	C	707	42.263	77.045	17.327	1.00	49.03	C
ATOM	8568	CA	ARG	C	707	42.787	76.300	16.175	1.00	49.03	C
ATOM	8569	CB	ARG	C	707	42.993	77.238	14.990	1.00	93.56	C
ATOM	8570	CG	ARG	C	707	43.782	78.489	15.307	1.00	93.56	C
ATOM	8571	CD	ARG	C	707	43.374	79.616	14.358	1.00	93.56	C
ATOM	8572	NE	ARG	C	707	43.814	80.938	14.805	1.00	93.56	C
ATOM	8573	CZ	ARG	C	707	43.295	82.087	14.374	1.00	93.56	C
ATOM	8574	NH1	ARG	C	707	42.313	82.091	13.481	1.00	93.56	C
ATOM	8575	NH2	ARG	C	707	43.747	83.239	14.853	1.00	93.56	C
ATOM	8576	C	ARG	C	707	44.072	75.539	16.434	1.00	49.03	C
ATOM	8577	O	ARG	C	707	44.622	75.604	17.525	1.00	49.03	C
ATOM	8578	N	TYR	C	708	44.532	74.804	15.425	1.00	37.77	C
ATOM	8579	CA	TYR	C	708	45.756	74.014	15.512	1.00	37.77	C
ATOM	8580	CB	TYR	C	708	45.440	72.598	15.963	1.00	25.12	C
ATOM	8581	CG	TYR	C	708	45.123	72.493	17.427	1.00	25.12	C
ATOM	8582	CD1	TYR	C	708	43.815	72.342	17.872	1.00	25.12	C
ATOM	8583	CE1	TYR	C	708	43.518	72.323	19.227	1.00	25.12	C
ATOM	8584	CD2	TYR	C	708	46.127	72.613	18.372	1.00	25.12	C
ATOM	8585	CE2	TYR	C	708	45.843	72.598	19.721	1.00	25.12	C
ATOM	8586	CZ	TYR	C	708	44.539	72.461	20.150	1.00	25.12	C
ATOM	8587	OH	TYR	C	708	44.264	72.536	21.507	1.00	25.12	C
ATOM	8588	C	TYR	C	708	46.403	73.949	14.142	1.00	37.77	C
ATOM	8589	O	TYR	C	708	45.719	73.655	13.154	1.00	37.77	C
ATOM	8590	N	GLU	C	709	47.709	74.201	14.065	1.00	45.83	C
ATOM	8591	CA	GLU	C	709	48.404	74.179	12.773	1.00	45.83	C
ATOM	8592	CB	GLU	C	709	49.109	75.510	12.522	1.00	77.60	C
ATOM	8593	CG	GLU	C	709	48.216	76.646	12.101	1.00	77.60	C
ATOM	8594	CD	GLU	C	709	48.921	77.589	11.134	1.00	77.60	C
ATOM	8595	OE1	GLU	C	709	50.074	77.990	11.427	1.00	77.60	C
ATOM	8596	OE2	GLU	C	709	48.324	77.927	10.083	1.00	77.60	C
ATOM	8597	C	GLU	C	709	49.442	73.081	12.603	1.00	45.83	C
ATOM	8598	O	GLU	C	709	50.160	72.761	13.544	1.00	45.83	C
ATOM	8599	N	ILE	C	710	49.522	72.516	11.398	1.00	21.14	C
ATOM	8600	CA	ILE	C	710	50.517	71.487	11.070	1.00	21.14	C
ATOM	8601	CB	ILE	C	710	49.935	70.077	10.971	1.00	43.13	C
ATOM	8602	CG2	ILE	C	710	51.075	69.065	10.953	1.00	43.13	C
ATOM	8603	CG1	ILE	C	710	48.943	69.823	12.117	1.00	43.13	C
ATOM	8604	CD	ILE	C	710	49.473	69.976	13.553	1.00	43.13	C
ATOM	8605	C	ILE	C	710	51.067	71.822	9.697	1.00	21.14	C
ATOM	8606	O	ILE	C	710	50.306	71.986	8.732	1.00	21.14	C
ATOM	8607	N	GLU	C	711	52.389	71.930	9.610	1.00	56.98	C
ATOM	8608	CA	GLU	C	711	53.037	72.268	8.353	1.00	56.98	C
ATOM	8609	CB	GLU	C	711	54.179	73.256	8.616	1.00	84.91	C
ATOM	8610	CG	GLU	C	711	53.672	74.550	9.240	1.00	84.91	C
ATOM	8611	CD	GLU	C	711	54.765	75.544	9.583	1.00	84.91	C
ATOM	8612	OE1	GLU	C	711	55.392	76.097	8.656	1.00	84.91	C
ATOM	8613	OE2	GLU	C	711	54.988	75.777	10.790	1.00	84.91	C
ATOM	8614	C	GLU	C	711	53.546	71.031	7.623	1.00	56.98	C







ATOM	8699	CB	THR	C	723	49.460	59.607	4.797	1.00100.07	
ATOM	8700	OG1	THR	C	723	50.769	60.127	4.545	1.00100.07	C
ATOM	8701	CG2	THR	C	723	48.917	58.945	3.546	1.00100.07	C
ATOM	8702	C	THR	C	723	47.776	60.173	6.391	1.00 43.74	C
ATOM	8703	O	THR	C	723	48.185	60.305	7.534	1.00 43.74	C
ATOM	8704	N	ALA	C	724	46.656	59.539	6.080	1.00 50.34	C
ATOM	8705	CA	ALA	C	724	45.863	58.890	7.102	1.00 50.34	C
ATOM	8706	CB	ALA	C	724	44.413	58.712	6.636	1.00 50.32	C
ATOM	8707	C	ALA	C	724	46.568	57.544	7.218	1.00 50.34	C
ATOM	8708	O	ALA	C	724	46.122	56.627	7.912	1.00 50.34	C
ATOM	8709	N	ASP	C	725	47.696	57.459	6.518	1.00 53.08	C
ATOM	8710	CA	ASP	C	725	48.536	56.277	6.467	1.00 53.08	C
ATOM	8711	CB	ASP	C	725	49.102	56.129	5.048	1.00100.07	C
ATOM	8712	CG	ASP	C	725	50.033	54.938	4.903	1.00100.07	C
ATOM	8713	OD1	ASP	C	725	49.561	53.796	5.102	1.00100.07	C
ATOM	8714	OD2	ASP	C	725	51.234	55.132	4.594	1.00100.07	C
ATOM	8715	C	ASP	C	725	49.691	56.361	7.463	1.00 53.08	C
ATOM	8716	O	ASP	C	725	50.802	55.937	7.169	1.00 53.08	C
ATOM	8717	N	ILE	C	726	49.452	56.921	8.639	1.00 48.00	C
ATOM	8718	CA	ILE	C	726	50.516	57.025	9.628	1.00 48.00	C
ATOM	8719	CB	ILE	C	726	49.974	57.672	10.901	1.00 93.84	C
ATOM	8720	CG2	ILE	C	726	50.552	56.995	12.117	1.00 99.59	C
ATOM	8721	CG1	ILE	C	726	50.266	59.173	10.860	1.00 99.59	C
ATOM	8722	CD	ILE	C	726	49.790	59.971	12.079	1.00100.07	C
ATOM	8723	C	ILE	C	726	51.101	55.633	9.904	1.00 48.00	C
ATOM	8724	O	ILE	C	726	50.374	54.640	9.985	1.00 48.00	C
ATOM	8725	N	PRO	C	727	52.425	55.545	10.053	1.00 42.25	C
ATOM	8726	CD	PRO	C	727	53.347	56.684	10.162	1.00 89.60	C
ATOM	8727	CA	PRO	C	727	53.131	54.286	10.306	1.00 42.25	C
ATOM	8728	CB	PRO	C	727	54.587	54.734	10.399	1.00100.07	C
ATOM	8729	CG	PRO	C	727	54.460	56.102	10.995	1.00 89.60	C
ATOM	8730	C	PRO	C	727	52.707	53.393	11.493	1.00 42.25	C
ATOM	8731	O	PRO	C	727	51.525	53.315	11.844	1.00 42.25	C
ATOM	8732	N	HIS	C	728	53.694	52.700	12.066	1.00 99.61	C
ATOM	8733	CA	HIS	C	728	53.512	51.773	13.182	1.00 99.61	C
ATOM	8734	CB	HIS	C	728	54.689	51.886	14.151	1.00100.07	C
ATOM	8735	CG	HIS	C	728	56.011	51.538	13.541	1.00100.07	C
ATOM	8736	CD2	HIS	C	728	57.214	52.156	13.596	1.00100.07	C
ATOM	8737	ND1	HIS	C	728	56.205	50.392	12.798	1.00100.07	C
ATOM	8738	CE1	HIS	C	728	57.474	50.326	12.421	1.00100.07	C
ATOM	8739	NE2	HIS	C	728	58.104	51.385	12.896	1.00100.07	C
ATOM	8740	C	HIS	C	728	52.209	51.944	13.941	1.00 99.61	C
ATOM	8741	O	HIS	C	728	51.412				



ATOM	8783	CD	ARG	C	735	42.943	53.698	7.548	1.00100.07	C
ATOM	8784	NE	ARG	C	735	44.189	53.734	6.763	1.00100.07	C
ATOM	8785	CZ	ARG	C	735	44.584	52.792	5.897	1.00100.07	C
ATOM	8786	NH1	ARG	C	735	43.838	51.715	5.683	1.00100.07	C
ATOM	8787	NH2	ARG	C	735	45.727	52.930	5.228	1.00100.07	C
ATOM	8788	C	ARG	C	735	40.162	55.871	11.274	1.00100.07	C
ATOM	8789	O	ARG	C	735	39.075	56.200	10.809	1.00100.07	C
ATOM	8790	N	ASP	C	736	40.306	55.408	12.521	1.00 70.13	C
ATOM	8791	CA	ASP	C	736	39.180	55.274	13.450	1.00 70.13	C
ATOM	8792	CB	ASP	C	736	39.676	54.692	14.789	1.00100.07	C
ATOM	8793	CG	ASP	C	736	38.570	54.566	15.854	1.00100.07	C
ATOM	8794	OD1	ASP	C	736	38.027	55.608	16.288	1.00100.07	C
ATOM	8795	OD2	ASP	C	736	38.251	53.429	16.273	1.00100.07	C
ATOM	8796	C	ASP	C	736	38.622	56.679	13.625	1.00 70.13	C
ATOM	8797	O	ASP	C	736	37.693	56.929	14.399	1.00 70.13	C
ATOM	8798	N	LEU	C	737	39.224	57.582	12.866	1.00 26.72	C
ATOM	8799	CA	LEU	C	737	38.901	58.998	12.798	1.00 26.72	C
ATOM	8800	CB	LEU	C	737	39.105	59.688	14.158	1.00100.07	C
ATOM	8801	CG	LEU	C	737	37.982	59.625	15.209	1.00 86.39	C
ATOM	8802	CD1	LEU	C	737	38.380	60.286	16.522	1.00 86.39	C
ATOM	8803	CD2	LEU	C	737	36.748	60.301	14.621	1.00 86.39	C
ATOM	8804	C	LEU	C	737	39.971	59.432	11.796	1.00 26.72	C
ATOM	8805	O	LEU	C	737	40.588	58.587	11.146	1.00 26.72	C
ATOM	8806	N	ALA	C	738	40.223	60.726	11.658	1.00100.07	C
ATOM	8807	CA	ALA	C	738	41.231	61.171	10.708	1.00100.07	C
ATOM	8808	CB	ALA	C	738	42.596	60.643	11.117	1.00 53.72	C
ATOM	8809	C	ALA	C	738	40.859	60.644	9.319	1.00100.07	C
ATOM	8810	O	ALA	C	738	41.594	59.856	8.730	1.00100.07	C
ATOM	8811	N	GLU	C	739	39.711	61.090	8.809	1.00 27.26	C
ATOM	8812	CA	GLU	C	739	39.227	60.648	7.510	1.00 27.26	C
ATOM	8813	CB	GLU	C	739	37.806	61.155	7.255	1.00100.07	C
ATOM	8814	CG	GLU	C	739	37.751	62.594	6.741	1.00100.07	C
ATOM	8815	CD	GLU	C	739	36.379	62.993	6.196	1.00100.07	C
ATOM	8816	OE1	GLU	C	739	35.469	63.299	7.009	1.00100.07	C
ATOM	8817	OE2	GLU	C	739	36.219	62.987	4.951	1.00100.07	C
ATOM	8818	C	GLU	C	739	40.123	61.134	6.393	1.00 27.26	C
ATOM	8819	O	GLU	C	739	40.191	62.336	6.129	1.00 27.26	C
ATOM	8820	N	GLU	C	740	40.789	60.179	5.737	1.00 70.52	C
ATOM	8821	CA	GLU	C	740	41.728	60.406	4.629	1.00 70.52	C
ATOM	8822	CB	GLU	C	740	40.953	60.506	3.322	1.00100.07	C
ATOM	8823	CG	GLU	C	740	40.329	59.186	2.956	1.00 99.90	C
ATOM	8824	CD	GLU	C	740	39.561	59.240	1.664	1.00 99.90	C
ATOM	8825	OE1	GLU	C	740	40.109	59.750	0.656	1.00 99.90	C
ATOM	8826	OE2	GLU	C	740	38.406	58.760	1.656	1.00 99.90	C
ATOM	8827	C	GLU	C	740	42.693	61.579	4.787	1.00 70.52	C
ATOM	8828	O	GLU	C	740	43.906	61.383	4.874	1.00 70.52	C
ATOM	8829	N	GLY	C	741	42.155	62.790	4.786	1.00100.07	C
ATOM	8830	CA	GLY	C	741	42.969	63.973	4.980	1.00100.07	C
ATOM	8831	C	GLY	C	741	43.075	64.250	6.468	1.00100.07	C
ATOM	8832	O	GLY	C	741	43.345	65.378	6.917	1.00100.07	C
ATOM	8833	N	ILE	C	742	42.812	63.207	7.240	1.00 70.03	C
ATOM	8834	CA	ILE	C	742	42.901	63.285	8.680	1.00 70.03	C
ATOM	8835	CB	ILE	C	742	44.371	63.393	9.077	1.00 63.79	C
ATOM	8836	CG2	ILE	C	742	44.494	63.363	10.547	1.00 69.54	C
ATOM	8837	CG1	ILE	C	742	45.155	62.201	8.527	1.00 69.54	C
ATOM	8838	CD	ILE	C	742	45.330	62.194	7.030	1.00100.07	C
ATOM	8839	C	ILE	C	742	42.099	64.413	9.363	1.00 70.03	C
ATOM	8840	O	ILE	C	742	42.200	65.581	8.992	1.00 70.03	C
ATOM	8841	N	ALA	C	743	41.331	64.021	10.390	1.00 64.34	C
ATOM	8842	CA	ALA	C	743	40.479	64.896	11.201	1.00 64.34	C
ATOM	8843	CB	ALA	C	743	41.138	66.259	11.397	1.00100.07	C
ATOM	8844	C	ALA	C	743	39.131	65.051	10.520	1.00 64.34	C
ATOM	8845	O	ALA	C	743	39.062	65.350	9.322	1.00 64.34	C
ATOM	8846	N	ALA	C	744	38.060	64.819	11.272	1.00 94.10	C
ATOM	8847	CA	ALA	C	744	36.700	64.940	10.744	1.00 94.10	C
ATOM	8848	CB	ALA	C	744	36.043	63.565	10.627	1.00 89.11	C
ATOM	8849	C	ALA	C	744	35.887	65.830	11.671	1.00 94.10	C
ATOM	8850	O	ALA	C	744	36.208	65.957	12.850	1.00 94.10	C
ATOM	8851	N	ILE	C	745	34.828	66.435	11.143	1.00 35.81	C
ATOM	8852	CA	ILE	C	745	34.000	67.323	11.943	1.00 35.81	C
ATOM	8853	CB	ILE	C	745	33.016	68.070	11.080	1.00 35.21	C
ATOM	8854	CG2	ILE	C	745	32.377	69.193	11.881	1.00 35.21	C
ATOM	8855	CG1	ILE	C	745	33.741	68.663	9.884	1.00 35.21	C
ATOM	8856	CD	ILE	C	745	32.787	69.118	8.806	1.00 35.21	C
ATOM	8857	C	ILE	C	745	33.212	66.623	13.039	1.00 35.81	C
ATOM	8858	O	ILE	C	745	33.143	65.402	13.094	1.00 35.81	C
ATOM	8859	N	GLY	C	746	32.614	67.419	13.915	1.00 31.59	C
ATOM	8860	CA	GLY	C	746	31.840	66.877	15.006	1.00 31.59	C
ATOM	8861	C	GLY	C	746	32.644	65.859	15.771	1.00 31.59	C
ATOM	8862	O	GLY	C	746	32.188	65.317	16.771	1.00 31.59	C
ATOM	8863	N	ALA	C	747	33.858	65.604	15.317	1.00 55.00	C
ATOM	8864	CA	ALA	C	747	34.681	64.619	15.975	1.00 55.00	C
ATOM	8865	CB	ALA	C	747	35.924	64.369	15.153	1.00 64.03	C
ATOM	8866	C	ALA	C	747	35.061	65.029	17.392	1.00 55.00	C



ATOM	8867	O	ALA	C	747	35.763	66.020	17.591	1.00	55.00
ATOM	8868	N	GLU	C	748	34.589	64.270	18.377	1.00	20.56
ATOM	8869	CA	GLU	C	748	34.923	64.553	19.767	1.00	20.56
ATOM	8870	CB	GLU	C	748	33.974	63.782	20.687	1.00	57.88
ATOM	8871	CG	GLU	C	748	34.306	63.851	22.156	1.00	57.88
ATOM	8872	CD	GLU	C	748	35.313	62.802	22.565	1.00	57.88
ATOM	8873	OE1	GLU	C	748	35.630	62.725	23.767	1.00	57.88
ATOM	8874	OE2	GLU	C	748	35.787	62.047	21.689	1.00	57.88
ATOM	8875	C	GLU	C	748	36.385	64.130	19.959	1.00	20.56
ATOM	8876	O	GLU	C	748	36.742	62.985	19.702	1.00	20.56
ATOM	8877	N	VAL	C	749	37.223	65.068	20.400	1.00	40.79
ATOM	8878	CA	VAL	C	749	38.663	64.844	20.566	1.00	40.79
ATOM	8879	CB	VAL	C	749	39.437	65.824	19.728	1.00	14.31
ATOM	8880	CG1	VAL	C	749	40.899	65.652	19.996	1.00	14.31
ATOM	8881	CG2	VAL	C	749	39.078	65.652	18.262	1.00	14.31
ATOM	8882	C	VAL	C	749	39.240	64.983	21.963	1.00	40.79
ATOM	8883	O	VAL	C	749	39.147	66.050	22.569	1.00	40.79
ATOM	8884	N	LYS	C	750	39.891	63.925	22.440	1.00	31.19
ATOM	8885	CA	LYS	C	750	40.512	63.899	23.773	1.00	31.19
ATOM	8886	CB	LYS	C	750	40.345	62.511	24.401	1.00	99.75
ATOM	8887	CG	LYS	C	750	39.318	61.629	23.698	1.00	99.75
ATOM	8888	CD	LYS	C	750	39.797	60.179	23.585	1.00	99.75
ATOM	8889	CE	LYS	C	750	38.861	59.333	22.726	1.00	99.75
ATOM	8890	NZ	LYS	C	750	39.316	57.916	22.630	1.00	99.75
ATOM	8891	C	LYS	C	750	41.999	64.184	23.561	1.00	31.19
ATOM	8892	O	LYS	C	750	42.495	64.089	22.443	1.00	31.19
ATOM	8893	N	PRO	C	751	42.735	64.520	24.627	1.00	51.92
ATOM	8894	CD	PRO	C	751	42.445	64.330	26.057	1.00	76.09
ATOM	8895	CA	PRO	C	751	44.157	64.799	24.435	1.00	51.92
ATOM	8896	CB	PRO	C	751	44.612	65.182	25.831	1.00	76.09
ATOM	8897	CG	PRO	C	751	43.839	64.232	26.664	1.00	76.09
ATOM	8898	C	PRO	C	751	44.842	63.540	23.945	1.00	51.92
ATOM	8899	O	PRO	C	751	44.493	62.439	24.379	1.00	51.92
ATOM	8900	N	GLY	C	752	45.813	63.696	23.052	1.00	71.81
ATOM	8901	CA	GLY	C	752	46.512	62.538	22.530	1.00	71.81
ATOM	8902	C	GLY	C	752	46.007	62.142	21.155	1.00	71.81
ATOM	8903	O	GLY	C	752	46.794	62.040	20.214	1.00	71.81
ATOM	8904	N	ASP	C	753	44.700	61.920	21.033	1.00	39.11
ATOM	8905	CA	ASP	C	753	44.095	61.540	19.758	1.00	39.11
ATOM	8906	CB	ASP	C	753	42.607	61.923	19.743	1.00	68.10
ATOM	8907	CG	ASP	C	753	41.815	61.300	20.893	1.00	68.10
ATOM	8908	OD1	ASP	C	753	40.573	61.464	20.911	1.00	68.10
ATOM	8909	OD2	ASP	C	753	42.424</				



ATOM	8951	CA	THR	C	759	55.391	61.594	8.197	1.00	62.22	C
ATOM	8952	CB	THR	C	759	55.285	60.171	7.655	1.00	75.33	C
ATOM	8953	OG1	THR	C	759	56.565	59.535	7.760	1.00	75.33	C
ATOM	8954	CG2	THR	C	759	54.833	60.190	6.193	1.00	75.33	C
ATOM	8955	C	THR	C	759	56.632	62.219	7.578	1.00	62.22	C
ATOM	8956	O	THR	C	759	56.592	62.767	6.474	1.00	62.22	C
ATOM	8957	N	SER	C	760	57.736	62.111	8.309	1.00	100.06	C
ATOM	8958	CA	SER	C	760	59.032	62.611	7.878	1.00	100.06	C
ATOM	8959	CB	SER	C	760	59.641	63.501	8.964	1.00	57.65	C
ATOM	8960	OG	SER	C	760	60.934	63.954	8.596	1.00	57.66	C
ATOM	8961	C	SER	C	760	59.891	61.365	7.664	1.00	100.06	C
ATOM	8962	O	SER	C	760	59.889	60.460	8.502	1.00	100.06	C
ATOM	8963	N	PHE	C	761	60.614	61.312	6.546	1.00	19.65	C
ATOM	8964	CA	PHE	C	761	61.449	60.151	6.238	1.00	19.65	C
ATOM	8965	CB	PHE	C	761	62.065	60.286	4.846	1.00	64.09	C
ATOM	8966	CG	PHE	C	761	61.064	60.404	3.744	1.00	64.09	C
ATOM	8967	CD1	PHE	C	761	60.578	61.647	3.360	1.00	64.09	C
ATOM	8968	CD2	PHE	C	761	60.612	59.270	3.080	1.00	64.09	C
ATOM	8969	CE1	PHE	C	761	59.657	61.759	2.327	1.00	64.09	C
ATOM	8970	CE2	PHE	C	761	59.689	59.368	2.044	1.00	64.09	C
ATOM	8971	CZ	PHE	C	761	59.210	60.614	1.665	1.00	64.09	C
ATOM	8972	C	PHE	C	761	62.573	59.870	7.239	1.00	19.65	C
ATOM	8973	O	PHE	C	761	62.848	58.709	7.544	1.00	19.65	C
ATOM	8974	N	LYS	C	762	63.213	60.934	7.725	1.00	68.08	C
ATOM	8975	CA	LYS	C	762	64.326	60.842	8.672	1.00	68.08	C
ATOM	8976	CB	LYS	C	762	63.854	61.093	10.111	1.00	70.03	C
ATOM	8977	CG	LYS	C	762	63.351	62.504	10.408	1.00	70.03	C
ATOM	8978	CD	LYS	C	762	63.369	62.783	11.914	1.00	70.03	C
ATOM	8979	CE	LYS	C	762	62.080	63.432	12.393	1.00	70.03	C
ATOM	8980	NZ	LYS	C	762	60.919	62.500	12.312	1.00	70.03	C
ATOM	8981	C	LYS	C	762	65.037	59.496	8.619	1.00	68.08	C
ATOM	8982	O	LYS	C	762	64.486	58.480	9.044	1.00	68.08	C
ATOM	8983	N	GLY	C	763	66.268	59.491	8.114	1.00	34.35	C
ATOM	8984	CA	GLY	C	763	67.006	58.244	8.024	1.00	34.35	C
ATOM	8985	C	GLY	C	763	68.279	58.187	8.839	1.00	34.35	C
ATOM	8986	O	GLY	C	763	69.294	57.725	8.335	1.00	34.35	C
ATOM	8987	N	GLU	C	764	68.222	58.627	10.095	1.00	100.04	C
ATOM	8988	CA	GLU	C	764	69.389	58.632	10.986	1.00	100.04	C
ATOM	8989	CB	GLU	C	764	68.971	58.866	12.448	1.00	100.07	C
ATOM	8990	CG	GLU	C	764	68.110	60.104	12.728	1.00	100.07	C
ATOM	8991	CD	GLU	C	764	66.668	59.962	12			



ATOM	9035	CA	GLU	C	770	70.572	40.565	10.813	1.00	70.11	C
ATOM	9036	CB	GLU	C	770	71.501	40.817	12.006	1.00	100.07	C
ATOM	9037	CG	GLU	C	770	72.966	40.478	11.799	1.00	100.07	C
ATOM	9038	CD	GLU	C	770	73.769	41.638	11.242	1.00	100.07	C
ATOM	9039	OE1	GLU	C	770	73.574	42.781	11.714	1.00	100.07	C
ATOM	9040	OE2	GLU	C	770	74.607	41.401	10.345	1.00	100.07	C
ATOM	9041	C	GLU	C	770	69.265	41.298	11.049	1.00	70.11	C
ATOM	9042	O	GLU	C	770	68.221	40.874	10.571	1.00	70.11	C
ATOM	9043	N	GLU	C	771	69.334	42.410	11.778	1.00	44.18	C
ATOM	9044	CA	GLU	C	771	68.155	43.222	12.051	1.00	44.18	C
ATOM	9045	CB	GLU	C	771	68.580	44.532	12.721	1.00	100.07	C
ATOM	9046	CG	GLU	C	771	67.529	45.183	13.618	1.00	100.07	C
ATOM	9047	CD	GLU	C	771	66.710	46.262	12.914	1.00	100.07	C
ATOM	9048	OE1	GLU	C	771	65.912	45.918	12.011	1.00	100.07	C
ATOM	9049	OE2	GLU	C	771	66.866	47.458	13.265	1.00	100.07	C
ATOM	9050	C	GLU	C	771	67.503	43.479	10.682	1.00	44.18	C
ATOM	9051	O	GLU	C	771	66.282	43.371	10.514	1.00	44.18	C
ATOM	9052	N	ARG	C	772	68.328	43.798	9.692	1.00	35.17	C
ATOM	9053	CA	ARG	C	772	67.809	44.029	8.356	1.00	35.17	C
ATOM	9054	CB	ARG	C	772	68.928	44.482	7.414	1.00	100.07	C
ATOM	9055	CG	ARG	C	772	68.529	44.489	5.941	1.00	100.07	C
ATOM	9056	CD	ARG	C	772	69.583	45.128	5.035	1.00	100.07	C
ATOM	9057	NE	ARG	C	772	69.532	46.591	5.042	1.00	100.07	C
ATOM	9058	CZ	ARG	C	772	68.457	47.315	4.734	1.00	100.07	C
ATOM	9059	NH1	ARG	C	772	67.316	46.725	4.395	1.00	100.07	C
ATOM	9060	NH2	ARG	C	772	68.524	48.640	4.750	1.00	100.07	C
ATOM	9061	C	ARG	C	772	67.229	42.703	7.882	1.00	35.17	C
ATOM	9062	O	ARG	C	772	66.147	42.653	7.295	1.00	35.17	C
ATOM	9063	N	LEU	C	773	67.958	41.628	8.152	1.00	84.17	C
ATOM	9064	CA	LEU	C	773	67.521	40.294	7.769	1.00	84.17	C
ATOM	9065	CB	LEU	C	773	68.610	39.271	8.089	1.00	54.45	C
ATOM	9066	CG	LEU	C	773	68.142	37.826	8.307	1.00	54.45	C
ATOM	9067	CD1	LEU	C	773	67.332	37.321	7.119	1.00	54.45	C
ATOM	9068	CD2	LEU	C	773	69.362	36.960	8.534	1.00	54.45	C
ATOM	9069	C	LEU	C	773	66.229	39.886	8.468	1.00	84.17	C
ATOM	9070	O	LEU	C	773	65.241	39.552	7.810	1.00	84.17	C
ATOM	9071	N	LEU	C	774	66.248	39.900	9.800	1.00	74.93	C
ATOM	9072	CA	LEU	C	774	65.081	39.523	10.583	1.00	74.93	C
ATOM	9073	CB	LEU	C	774	65.252	39.885	12.057	1.00	69.96	C
ATOM	9074	CG	LEU	C	774	66.088	38.975	12.955	1.00	69.96	C
ATOM	9075	CD1	LEU								



ATOM	9119	N	GLU	C	780	58.259	43.739	7.272	1.00	55.93	C
ATOM	9120	CA	GLU	C	780	58.934	44.554	6.263	1.00	55.93	C
ATOM	9121	CB	GLU	C	780	57.924	45.069	5.234	1.00100.07		C
ATOM	9122	CG	GLU	C	780	57.068	43.982	4.592	1.00100.07		C
ATOM	9123	CD	GLU	C	780	56.017	44.547	3.642	1.00100.07		C
ATOM	9124	OE1	GLU	C	780	56.380	44.984	2.524	1.00100.07		C
ATOM	9125	OE2	GLU	C	780	54.824	44.562	4.022	1.00100.07		C
ATOM	9126	C	GLU	C	780	59.645	45.734	6.902	1.00	55.93	C
ATOM	9127	O	GLU	C	780	59.339	46.105	8.035	1.00	55.93	C
ATOM	9128	N	LYS	C	781	60.601	46.310	6.178	1.00	99.18	C
ATOM	9129	CA	LYS	C	781	61.345	47.460	6.680	1.00	99.18	C
ATOM	9130	CB	LYS	C	781	62.604	47.687	5.843	1.00	85.95	C
ATOM	9131	CG	LYS	C	781	62.312	47.909	4.368	1.00	85.95	C
ATOM	9132	CD	LYS	C	781	63.511	48.493	3.628	1.00	85.95	C
ATOM	9133	CE	LYS	C	781	63.151	48.856	2.188	1.00	85.95	C
ATOM	9134	NZ	LYS	C	781	64.235	49.605	1.491	1.00	85.95	C
ATOM	9135	C	LYS	C	781	60.424	48.667	6.563	1.00	99.18	C
ATOM	9136	O	LYS	C	781	59.351	48.561	5.972	1.00	99.18	C
ATOM	9137	N	ALA	C	782	60.832	49.805	7.121	1.00	56.09	C
ATOM	9138	CA	ALA	C	782	60.020	51.025	7.058	1.00	56.09	C
ATOM	9139	CB	ALA	C	782	59.096	51.108	8.278	1.00	99.75	C
ATOM	9140	C	ALA	C	782	60.882	52.288	6.961	1.00	56.09	C
ATOM	9141	O	ALA	C	782	62.115	52.222	7.040	1.00	56.09	C
ATOM	9142	N	ARG	C	783	60.225	53.435	6.786	1.00	97.54	C
ATOM	9143	CA	ARG	C	783	60.916	54.724	6.665	1.00	97.54	C
ATOM	9144	CB	ARG	C	783	61.433	54.909	5.223	1.00	86.06	C
ATOM	9145	CG	ARG	C	783	60.639	54.163	4.122	1.00	86.06	C
ATOM	9146	CD	ARG	C	783	59.209	54.695	3.917	1.00	86.06	C
ATOM	9147	NE	ARG	C	783	58.446	53.884	2.961	1.00	86.06	C
ATOM	9148	CZ	ARG	C	783	57.262	54.217	2.447	1.00	86.06	C
ATOM	9149	NH1	ARG	C	783	56.674	55.359	2.782	1.00	86.06	C
ATOM	9150	NH2	ARG	C	783	56.663	53.402	1.589	1.00	86.06	C
ATOM	9151	C	ARG	C	783	60.062	55.935	7.061	1.00	97.54	C
ATOM	9152	O	ARG	C	783	60.210	57.009	6.481	1.00	97.54	C
ATOM	9153	N	ASP	C	784	59.197	55.777	8.062	1.00100.07		C
ATOM	9154	CA	ASP	C	784	58.322	56.872	8.473	1.00100.07		C
ATOM	9155	CB	ASP	C	784	57.030	56.792	7.685	1.00	39.87	C
ATOM	9156	CG	ASP	C	784	57.251	56.947	6.216	1.00	39.87	C
ATOM	9157	OD1	ASP	C	784	57.775	58.004	5.813	1.00	39.87	C
ATOM	9158	OD2	ASP	C	784	56.907	56.017	5.461	1.00	39.87	C
ATOM	9159	C	ASP	C	784	57.966	57.008	9.951	1.00100.07		C
ATOM	9160	O	ASP	C	784	57.837	56.017	10.677	1.00100.07		C
ATOM	9161	N	VAL	C	785	57.777	58.258	10.370	1.00	78.78	C
ATOM	9162	CA	VAL	C	785	57.421	58.592	11.746	1.00	78.78	C
ATOM	9163	CB	VAL	C	785	58.449	59.563	12.369	1.00	99.50	C
ATOM	9164	CG1	VAL	C	785	58.043	59.913	13.798	1.00	99.50	C
ATOM	9165	CG2	VAL	C	785	59.836	58.950	12.331	1.00	99.50	C
ATOM	9166	C	VAL	C	785	56.062	59.286	11.753	1.00	78.78	C
ATOM	9167	O	VAL	C	785	55.799	60.156	10.922	1.00	78.78	C
ATOM	9168	N	LYS	C	786	55.192	58.904	12.680	1.00	99.29	C
ATOM	9169	CA	LYS	C	786	53.886	59.542	12.749	1.00	99.29	C
ATOM	9170	CB	LYS	C	786	52.964	58.786	13.692	1.00100.07		C
ATOM	9171	CG	LYS	C	786	53.517	58.643	15.076	1.00100.07		C
ATOM	9172	CD	LYS	C	786	52.894	57.448	15.740	1.00100.07		C
ATOM	9173	CE	LYS	C	786	53.713	56.992	16.927	1.00100.07		C
ATOM	9174	NZ	LYS	C	786	53.301	55.634	17.397	1.00100.07		C
ATOM	9175	C	LYS	C	786	54.135	60.919	13.301	1.00	99.29	C
ATOM	9176	O	LYS	C	786	55.175	61.153	13.909	1.00	99.29	C
ATOM	9177	N	ASP	C	787	53.198	61.833	13.078	1.00	89.06	C
ATOM	9178	CA	ASP	C	787	53.341	63.188	13.598	1.00	89.06	C
ATOM	9179	CB	ASP	C	787	54.167	64.066	12.644	1.00	38.50	C
ATOM	9180	CG	ASP	C	787	55.542	63.479	12.340	1.00	38.50	C
ATOM	9181	OD1	ASP	C	787	56.297	63.133	13.268	1.00	38.50	C
ATOM	9182	OD2	ASP	C	787	55.876	63.371	11.153	1.00	38.50	C
ATOM	9183	C	ASP	C	787	51.972	63.810	13.842	1.00	89.06	C
ATOM	9184	O	ASP	C	787	50.956	63.307	13.363	1.00	89.06	C
ATOM	9185	N	THR	C	788	51.970	64.906	14.594	1.00	72.43	C
ATOM	9186	CA	THR	C	788	50.760	65.636	14.976	1.00	72.43	C
ATOM	9187	CB	THR	C	788	49.879	66.033	13.783	1.00100.04		C
ATOM	9188	OG1	THR	C	788	50.675	66.665	12.772	1.00100.04		C
ATOM	9189	CG2	THR	C	788	48.781	67.000	14.259	1.00100.04		C
ATOM	9190	C	THR	C	788	49.903	64.786	15.891	1.00	72.43	C
ATOM	9191	O	THR	C	788	50.010	63.563	15.883	1.00	72.43	C
ATOM	9192	N	SER	C	789	49.046	65.449	16.660	1.00	45.06	C
ATOM	9193	CA	SER	C	789	48.144	64.809	17.625	1.00	45.06	C
ATOM	9194	CB	SER	C	789	48.863	63.754	18.482	1.00	50.11	C
ATOM	9195	OG	SER	C	789	48.895	62.472	17.880	1.00	50.11	C
ATOM	9196	C	SER	C	789	47.709	65.935	18.541	1.00	45.06	C
ATOM	9197	O	SER	C	789	48.369	66.977	18.590	1.00	45.06	C
ATOM	9198	N	LEU	C	790	46.629	65.722	19.288	1.00	18.16	C
ATOM	9199	CA	LEU	C	790	46.110	66.753	20.196	1.00	18.16	C
ATOM	9200	CB	LEU	C	790	44.639	66.504	20.513	1.00	17.00	C
ATOM	9201	CG	LEU	C	790	44.249	67.121	21.841	1.00	17.00	C
ATOM	9202	CD1	LEU	C	790	44.518	68.596	21.829	1.00	17.00	C



ATOM	9203	CD2	LEU	C	790	42.808	66.858	22.074	1.00	17.00	C
ATOM	9204	C	LEU	C	790	46.861	66.966	21.504	1.00	18.16	C
ATOM	9205	O	LEU	C	790	47.034	66.049	22.304	1.00	18.16	C
ATOM	9206	N	ARG	C	791	47.240	68.224	21.709	1.00	45.09	C
ATOM	9207	CA	ARG	C	791	47.989	68.664	22.868	1.00	45.09	C
ATOM	9208	CB	ARG	C	791	47.940	70.194	22.993	1.00	100.07	C
ATOM	9209	CG	ARG	C	791	49.028	70.752	23.909	1.00	100.07	C
ATOM	9210	CD	ARG	C	791	48.640	72.069	24.570	1.00	100.07	C
ATOM	9211	NE	ARG	C	791	49.497	72.357	25.724	1.00	100.07	C
ATOM	9212	CZ	ARG	C	791	49.251	73.300	26.632	1.00	100.07	C
ATOM	9213	NH1	ARG	C	791	48.166	74.064	26.527	1.00	100.07	C
ATOM	9214	NH2	ARG	C	791	50.082	73.466	27.658	1.00	100.07	C
ATOM	9215	C	ARG	C	791	47.519	68.031	24.166	1.00	45.09	C
ATOM	9216	O	ARG	C	791	46.558	67.268	24.189	1.00	45.09	C
ATOM	9217	N	VAL	C	792	48.233	68.358	25.238	1.00	24.83	C
ATOM	9218	CA	VAL	C	792	47.964	67.870	26.575	1.00	24.83	C
ATOM	9219	CB	VAL	C	792	49.249	67.941	27.404	1.00	55.01	C
ATOM	9220	CG1	VAL	C	792	50.257	66.956	26.857	1.00	55.01	C
ATOM	9221	CG2	VAL	C	792	49.842	69.339	27.327	1.00	55.01	C
ATOM	9222	C	VAL	C	792	46.857	68.720	27.213	1.00	24.83	C
ATOM	9223	O	VAL	C	792	46.885	69.949	27.164	1.00	24.83	C
ATOM	9224	N	PRO	C	793	45.888	68.075	27.865	1.00	61.06	C
ATOM	9225	CD	PRO	C	793	46.311	66.994	28.776	1.00	100.07	C
ATOM	9226	CA	PRO	C	793	44.779	68.793	28.491	1.00	61.06	C
ATOM	9227	CB	PRO	C	793	45.286	68.961	29.911	1.00	100.07	C
ATOM	9228	CG	PRO	C	793	45.859	67.531	30.169	1.00	100.07	C
ATOM	9229	C	PRO	C	793	44.210	70.085	27.871	1.00	61.06	C
ATOM	9230	O	PRO	C	793	44.005	71.074	28.576	1.00	61.06	C
ATOM	9231	N	PRO	C	794	43.953	70.087	26.545	1.00	99.26	C
ATOM	9232	CD	PRO	C	794	44.723	69.290	25.576	1.00	100.07	C
ATOM	9233	CA	PRO	C	794	43.401	71.238	25.831	1.00	99.26	C
ATOM	9234	CB	PRO	C	794	44.583	71.695	25.006	1.00	100.07	C
ATOM	9235	CG	PRO	C	794	45.126	70.353	24.516	1.00	100.07	C
ATOM	9236	C	PRO	C	794	42.272	70.695	24.945	1.00	99.26	C
ATOM	9237	O	PRO	C	794	41.624	71.427	24.192	1.00	99.26	C
ATOM	9238	N	GLY	C	795	42.073	69.385	25.038	1.00	46.52	C
ATOM	9239	CA	GLY	C	795	41.042	68.728	24.269	1.00	46.52	C
ATOM	9240	C	GLY	C	795	39.761	68.629	25.070	1.00	46.52	C
ATOM	9241	O	GLY	C	795	38.771	69.258	24.689	1.00	46.52	C
ATOM	9242	N	GLU	C	796	39.788	67.849	26.166	1.00	75.64	C
ATOM	9243	CA	GLU	C	796	38.645	67.628	27.083	1.00	75.64	C
ATOM	9244	CB	GLU	C	796	38.259	68.942	27.779	1.00	79.10	C
ATOM	9245	CG	GLU	C	796	37.040	68.851	28.699	1.00	79.10	C
ATOM	9246	CD	GLU	C	796	36.127	70.067	28.592	1.00	79.10	C
ATOM	9247	OE1	GLU	C	796	35.550	70.280	27.504	1.00	79.10	C
ATOM	9248	OE2	GLU	C	796	35.987	70.806	29.592	1.00	79.10	C
ATOM	9249	C	GLU	C	796	37.408	67.059	26.385	1.00	75.64	C
ATOM	9250	O	GLU	C	796	36.369	66.824	27.007	1.00	75.64	C
ATOM	9251	N	GLY	C	797	37.542	66.823	25.088	1.00	100.07	C
ATOM	9252	CA	GLY	C	797	36.433	66.329	24.303	1.00	100.07	C
ATOM	9253	C	GLY	C	797	36.133	67.432	23.312	1.00	100.07	C
ATOM	9254	O	GLY	C	797	34.996	67.614	22.877	1.00	100.07	C
ATOM	9255	N	GLY	C	798	37.171	68.191	22.972	1.00	29.78	C
ATOM	9256	CA	GLY	C	798	36.997	69.269	22.031	1.00	29.78	C
ATOM	9257	C	GLY	C	798	36.429	68.635	20.786	1.00	29.78	C
ATOM	9258	O	GLY	C	798	37.158	68.067	19.975	1.00	29.78	C
ATOM	9259	N	ILE	C	799	35.120	68.709	20.626	1.00	45.20	C
ATOM	9260	CA	ILE	C	799	34.511	68.100	19.463	1.00	45.20	C
ATOM	9261	CB	ILE	C	799	32.993	67.954	19.686	1.00	36.50	C
ATOM	9262	CG2	ILE	C	799	32.731	67.156	20.966	1.00	36.50	C
ATOM	9263	CG1	ILE	C	799	32.348	69.319	19.871	1.00	36.50	C
ATOM	9264	CD	ILE	C	799	30.922	69.207	20.278	1.00	36.50	C
ATOM	9265	C	ILE	C	799	34.819	68.880	18.179	1.00	45.20	C
ATOM	9266	O	ILE	C	799	34.157	69.862	17.865	1.00	45.20	C
ATOM	9267	N	VAL	C	800	35.844	68.434	17.455	1.00	35.42	C
ATOM	9268	CA	VAL	C	800	36.278	69.056	16.204	1.00	35.42	C
ATOM	9269	CB	VAL	C	800	36.891	68.007	15.264	1.00	28.90	C
ATOM	9270	CG1	VAL	C	800	36.999	68.569	13.853	1.00	28.90	C
ATOM	9271	CG2	VAL	C	800	38.269	67.608	15.779	1.00	28.90	C
ATOM	9272	C	VAL	C	800	35.167	69.790	15.466	1.00	35.42	C
ATOM	9273	O	VAL	C	800	34.279	69.170	14.903	1.00	35.42	C
ATOM	9274	N	VAL	C	801	35.249	71.115	15.448	1.00	28.85	C
ATOM	9275	CA	VAL	C	801	34.231	71.940	14.826	1.00	28.85	C
ATOM	9276	CB	VAL	C	801	34.009	73.238	15.588	1.00	19.72	C
ATOM	9277	CG1	VAL	C	801	32.615	73.732	15.314	1.00	19.72	C
ATOM	9278	CG2	VAL	C	801	34.265	73.050	17.067	1.00	19.72	C
ATOM	9279	C	VAL	C	801	34.520	72.371	13.414	1.00	28.85	C
ATOM	9280	O	VAL	C	801	33.670	72.998	12.779	1.00	28.85	C
ATOM	9281	N	GLY	C	802	35.714	72.086	12.918	1.00	80.75	C
ATOM	9282	CA	GLY	C	802	36.017	72.494	11.562	1.00	80.75	C
ATOM	9283	C	GLY	C	802	37.467	72.315	11.193	1.00	80.75	C
ATOM	9284	O	GLY	C	802	38.331	72.198	12.063	1.00	80.75	C
ATOM	9285	N	ARG	C	803	37.733	72.292	9.893	1.00	20.60	C
ATOM	9286	CA	ARG	C	803	39.095	72.133	9.399	1.00	20.60	C



ATOM	9287	CB	ARG	C	803	39.365	70.656	9.057	1.00100.07	C
ATOM	9288	CG	ARG	C	803	38.142	69.883	8.562	1.00100.07	C
ATOM	9289	CD	ARG	C	803	38.180	69.580	7.062	1.00100.07	C
ATOM	9290	NE	ARG	C	803	36.883	69.820	6.424	1.00100.07	C
ATOM	9291	CZ	ARG	C	803	36.583	69.500	5.168	1.00100.07	C
ATOM	9292	NH1	ARG	C	803	37.484	68.911	4.389	1.00100.07	C
ATOM	9293	NH2	ARG	C	803	35.385	69.790	4.682	1.00100.07	C
ATOM	9294	C	ARG	C	803	39.288	73.025	8.179	1.00 20.60	C
ATOM	9295	O	ARG	C	803	38.327	73.363	7.488	1.00 20.60	C
ATOM	9296	N	LEU	C	804	40.525	73.444	7.949	1.00 50.03	C
ATOM	9297	CA	LEU	C	804	40.863	74.271	6.801	1.00 50.03	C
ATOM	9298	CB	LEU	C	804	41.066	75.731	7.196	1.00 45.33	C
ATOM	9299	CG	LEU	C	804	41.890	76.518	6.166	1.00 45.33	C
ATOM	9300	CD1	LEU	C	804	41.250	76.369	4.799	1.00 45.33	C
ATOM	9301	CD2	LEU	C	804	41.997	77.994	6.554	1.00 45.33	C
ATOM	9302	C	LEU	C	804	42.160	73.724	6.243	1.00 50.03	C
ATOM	9303	O	LEU	C	804	43.031	73.265	6.991	1.00 50.03	C
ATOM	9304	N	ARG	C	805	42.292	73.777	4.928	1.00 57.38	C
ATOM	9305	CA	ARG	C	805	43.481	73.265	4.291	1.00 57.38	C
ATOM	9306	CB	ARG	C	805	43.224	71.858	3.758	1.00100.02	C
ATOM	9307	CG	ARG	C	805	42.202	71.780	2.619	1.00100.02	C
ATOM	9308	CD	ARG	C	805	40.873	72.462	2.962	1.00100.02	C
ATOM	9309	NE	ARG	C	805	39.797	72.075	2.047	1.00100.02	C
ATOM	9310	CZ	ARG	C	805	38.539	72.506	2.131	1.00100.02	C
ATOM	9311	NH1	ARG	C	805	38.177	73.354	3.089	1.00100.02	C
ATOM	9312	NH2	ARG	C	805	37.637	72.072	1.261	1.00100.02	C
ATOM	9313	C	ARG	C	805	43.879	74.155	3.153	1.00 57.38	C
ATOM	9314	O	ARG	C	805	43.126	74.318	2.196	1.00 57.38	C
ATOM	9315	N	LEU	C	806	45.051	74.760	3.259	1.00 48.35	C
ATOM	9316	CA	LEU	C	806	45.515	75.582	2.161	1.00 48.35	C
ATOM	9317	CB	LEU	C	806	45.464	77.082	2.517	1.00 33.54	C
ATOM	9318	CG	LEU	C	806	46.212	77.798	3.635	1.00 33.54	C
ATOM	9319	CD1	LEU	C	806	47.687	77.828	3.334	1.00 33.54	C
ATOM	9320	CD2	LEU	C	806	45.701	79.223	3.725	1.00 33.54	C
ATOM	9321	C	LEU	C	806	46.911	75.112	1.759	1.00 48.35	C
ATOM	9322	O	LEU	C	806	47.836	75.099	2.569	1.00 48.35	C
ATOM	9323	N	ARG	C	807	47.033	74.679	0.504	1.00 97.68	C
ATOM	9324	CA	ARG	C	807	48.290	74.170	-0.044	1.00 97.68	C
ATOM	9325	CB	ARG	C	807	48.071	72.749	-0.592	1.00 98.93	C
ATOM	9326	CG	ARG	C	807	46.648	72.436	-1.106	1.00 98.93	C
ATOM	9327	CD	ARG	C	807	46.246	73.311	-2.300	1.00 98.93	C
ATOM	9328	NE	ARG	C	807	45.070	72.803	-3.014	1.00 98.93	C
ATOM	9329	CZ	ARG	C	807	44.615				



ATOM	9371	CG1	VAL	C	813	47.903	80.728	1.579	1.00	57.90	C
ATOM	9372	CG2	VAL	C	813	47.000	80.180	-0.725	1.00	57.90	C
ATOM	9373	C	VAL	C	813	50.251	81.950	-0.341	1.00	30.10	C
ATOM	9374	O	VAL	C	813	50.910	81.077	-0.930	1.00	30.10	C
ATOM	9375	N	GLU	C	814	50.834	82.888	0.394	1.00	41.78	C
ATOM	9376	CA	GLU	C	814	52.274	82.846	0.552	1.00	41.78	C
ATOM	9377	CB	GLU	C	814	52.847	84.172	1.085	1.00	100.07	C
ATOM	9378	CG	GLU	C	814	54.401	84.176	1.136	1.00	100.07	C
ATOM	9379	CD	GLU	C	814	55.026	85.350	1.910	1.00	100.07	C
ATOM	9380	OE1	GLU	C	814	54.991	85.345	3.165	1.00	100.07	C
ATOM	9381	OE2	GLU	C	814	55.565	86.277	1.257	1.00	100.07	C
ATOM	9382	C	GLU	C	814	52.488	81.761	1.598	1.00	41.78	C
ATOM	9383	O	GLU	C	814	51.749	81.689	2.586	1.00	41.78	C
ATOM	9384	N	LEU	C	815	53.469	80.897	1.369	1.00	57.51	C
ATOM	9385	CA	LEU	C	815	53.775	79.858	2.336	1.00	57.51	C
ATOM	9386	CB	LEU	C	815	53.208	78.508	1.903	1.00	57.31	C
ATOM	9387	CG	LEU	C	815	51.743	78.345	2.307	1.00	57.31	C
ATOM	9388	CD1	LEU	C	815	50.871	79.124	1.343	1.00	57.31	C
ATOM	9389	CD2	LEU	C	815	51.358	76.874	2.307	1.00	57.31	C
ATOM	9390	C	LEU	C	815	55.269	79.748	2.571	1.00	57.51	C
ATOM	9391	O	LEU	C	815	56.022	79.367	1.679	1.00	57.51	C
ATOM	9392	N	LYS	C	816	55.677	80.105	3.787	1.00	66.37	C
ATOM	9393	CA	LYS	C	816	57.069	80.057	4.206	1.00	66.37	C
ATOM	9394	CB	LYS	C	816	57.166	79.641	5.676	1.00	92.74	C
ATOM	9395	CG	LYS	C	816	58.588	79.379	6.159	1.00	92.74	C
ATOM	9396	CD	LYS	C	816	59.456	80.630	6.064	1.00	92.74	C
ATOM	9397	CE	LYS	C	816	60.908	80.356	6.453	1.00	92.74	C
ATOM	9398	NZ	LYS	C	816	61.600	79.349	5.584	1.00	92.74	C
ATOM	9399	C	LYS	C	816	57.849	79.077	3.355	1.00	66.37	C
ATOM	9400	O	LYS	C	816	57.446	77.930	3.189	1.00	66.37	C
ATOM	9401	N	PRO	C	817	58.973	79.526	2.786	1.00	80.61	C
ATOM	9402	CD	PRO	C	817	59.620	80.837	2.935	1.00	71.98	C
ATOM	9403	CA	PRO	C	817	59.789	78.648	1.952	1.00	80.61	C
ATOM	9404	CB	PRO	C	817	61.119	79.401	1.855	1.00	71.98	C
ATOM	9405	CG	PRO	C	817	61.051	80.448	2.970	1.00	71.98	C
ATOM	9406	C	PRO	C	817	59.938	77.242	2.525	1.00	80.61	C
ATOM	9407	O	PRO	C	817	60.220	77.056	3.712	1.00	80.61	C
ATOM	9408	N	GLY	C	818	59.747	76.254	1.660	1.00	76.22	C
ATOM	9409	CA	GLY	C	818	59.847	74.876	2.087	1.00	76.22	C
ATOM	9410	C	GLY	C	818	58.445	74.459	2.442	1.00	76.22	C
ATOM	9411	O	GLY	C	818	57.922	73.474	1.92			











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ATOM	9623	N	ASN	C	845	34.464	94.203	42.337	1.00	7.29	C
ATOM	9624	CA	ASN	C	845	34.507	93.357	43.524	1.00	7.29	C
ATOM	9625	CB	ASN	C	845	33.149	93.291	44.212	1.00	47.87	C
ATOM	9626	CG	ASN	C	845	33.268	92.875	45.664	1.00	47.87	C
ATOM	9627	OD1	ASN	C	845	33.543	91.710	45.967	1.00	47.87	C
ATOM	9628	ND2	ASN	C	845	33.088	93.833	46.573	1.00	47.87	C
ATOM	9629	C	ASN	C	845	35.024	91.940	43.228	1.00	7.29	C
ATOM	9630	O	ASN	C	845	34.633	90.952	43.882	1.00	7.29	C
ATOM	9631	N	LYS	C	846	35.939	91.888	42.257	1.00	9.29	C
ATOM	9632	CA	LYS	C	846	36.598	90.682	41.768	1.00	9.29	C
ATOM	9633	CB	LYS	C	846	37.791	91.103	40.914	1.00	51.12	C
ATOM	9634	CG	LYS	C	846	38.785	92.033	41.613	1.00	51.12	C
ATOM	9635	CD	LYS	C	846	39.735	91.294	42.568	1.00	51.12	C
ATOM	9636	CE	LYS	C	846	41.023	92.086	42.781	1.00	51.12	C
ATOM	9637	NZ	LYS	C	846	41.715	92.422	41.490	1.00	51.12	C
ATOM	9638	C	LYS	C	846	37.054	89.663	42.804	1.00	9.29	C
ATOM	9639	O	LYS	C	846	37.600	90.023	43.842	1.00	9.29	C
ATOM	9640	N	GLY	C	847	36.847	88.385	42.496	1.00	48.33	C
ATOM	9641	CA	GLY	C	847	37.238	87.307	43.395	1.00	48.33	C
ATOM	9642	C	GLY	C	847	37.167	85.970	42.673	1.00	48.33	C
ATOM	9643	O	GLY	C	847	36.453	85.849	41.670	1.00	48.33	C
ATOM	9644	N	VAL	C	848	37.893	84.966	43.164	1.00	41.93	C
ATOM	9645	CA	VAL	C	848	37.901	83.646	42.519	1.00	41.93	C
ATOM	9646	CB	VAL	C	848	39.305	83.025	42.527	1.00	26.52	C
ATOM	9647	CG1	VAL	C	848	39.875	83.044	43.918	1.00	26.52	C
ATOM	9648	CG2	VAL	C	848	39.237	81.604	42.063	1.00	26.52	C
ATOM	9649	C	VAL	C	848	36.968	82.666	43.203	1.00	41.93	C
ATOM	9650	O	VAL	C	848	36.833	82.692	44.434	1.00	41.93	C
ATOM	9651	N	VAL	C	849	36.344	81.790	42.413	1.00	19.39	C
ATOM	9652	CA	VAL	C	849	35.413	80.799	42.967	1.00	19.39	C
ATOM	9653	CB	VAL	C	849	34.630	80.056	41.884	1.00	7.09	C
ATOM	9654	CG1	VAL	C	849	33.978	78.865	42.501	1.00	7.09	C
ATOM	9655	CG2	VAL	C	849	33.578	80.954	41.248	1.00	7.09	C
ATOM	9656	C	VAL	C	849	36.064	79.707	43.808	1.00	19.39	C
ATOM	9657	O	VAL	C	849	36.707	78.810	43.261	1.00	19.39	C
ATOM	9658	N	ALA	C	850	35.880	79.773	45.125	1.00	18.37	C
ATOM	9659	CA	ALA	C	850	36.424	78.764	46.028	1.00	18.37	C
ATOM	9660	CB	ALA	C	850	36.501	79.307	47.446	1.00	49.09	C
ATOM	9661	C	ALA	C	850	35.455	77.584	45.951	1.00	18.37	C
ATOM	9662	O	ALA	C	850	35.198	77.103	44.862	1.00	18.37	C
ATOM	9663	N	LYS	C	851	34.906	77.128	47.078	1.00	34.64	C
ATOM	9664	CA	LYS	C	851	33.952	76.008	47.070	1.00	34.64	C
ATOM	9665	CB	LYS	C	851	33.610	75.601	48.494	1.00	58.68	C
ATOM	9666	CG	LYS	C	851	32.571	74.521	48.569	1.00	58.68	C
ATOM	9667	CD	LYS	C	851	32.523	73.929	49.956	1.00	58.68	C
ATOM	9668	CE	LYS	C	851	33.809	73.163	50.282	1.00	58.68	C
ATOM	9669	NZ	LYS	C	851	33.884	72.688	51.703	1.00	58.68	C
ATOM	9670	C	LYS	C	851	32.650	76.330	46.315	1.00	34.64	C
ATOM	9671	O	LYS	C	851	32.371	77.497	46.016	1.00	34.64	C
ATOM	9672	N	ILE	C	852	31.866	75.295	45.994	1.00	27.52	C
ATOM	9673	CA	ILE	C	852	30.588	75.470	45.287	1.00	27.52	C
ATOM	9674	CB	ILE	C	852	30.777	75.306	43.795	1.00	24.22	C
ATOM	9675	CG2	ILE	C	852	31.297	73.931	43.488	1.00	24.22	C
ATOM	9676	CG1	ILE	C	852	29.473	75.588	43.079	1.00	24.22	C
ATOM	9677	CD	ILE	C	852	29.642	75.618	41.572	1.00	24.22	C
ATOM	9678	C	ILE	C	852	29.536	74.480	45.812	1.00	27.52	C
ATOM	9679	O	ILE	C	852	29.545	73.287	45.495	1.00	27.52	C
ATOM	9680	N	LEU	C	853	28.642	75.028	46.635	1.00	36.16	C
ATOM	9681	CA	LEU	C	853	27.572	74.321	47.336	1.00	36.16	C
ATOM	9682	CB	LEU	C	853	27.129	75.165	48.532	1.00	26.55	C
ATOM	9683	CG	LEU	C	853	27.737	74.884	49.906	1.00	26.55	C
ATOM	9684	CD1	LEU	C	853	29.124	74.292	49.792	1.00	26.55	C
ATOM	9685	CD2	LEU	C	853	27.756	76.172	50.679	1.00	26.55	C
ATOM	9686	C	LEU	C	853	26.330	73.919	46.568	1.00	36.16	C
ATOM	9687	O	LEU	C	853	26.056	74.421	45.486	1.00	36.16	C
ATOM	9688	N	PRO	C	854	25.552	73.000	47.148	1.00	33.52	C
ATOM	9689	CD	PRO	C	854	26.021	72.171	48.275	1.00	11.97	C
ATOM	9690	CA	PRO	C	854	24.307	72.465	46.602	1.00	33.52	C
ATOM	9691	CB	PRO	C	854	24.311	71.041	47.116	1.00	11.97	C
ATOM	9692	CG	PRO	C	854	24.864	71.231	48.518	1.00	11.97	C
ATOM	9693	C	PRO	C	854	23.150	73.247	47.186	1.00	33.52	C
ATOM	9694	O	PRO	C	854	23.273	73.770	48.293	1.00	33.52	C
ATOM	9695	N	VAL	C	855	22.035	73.319	46.458	1.00	14.10	C
ATOM	9696	CA	VAL	C	855	20.834	74.025	46.927	1.00	14.10	C
ATOM	9697	CB	VAL	C	855	19.641	73.738	46.023	1.00	16.59	C
ATOM	9698	CG1	VAL	C	855	19.706	74.570	44.773	1.00	16.59	C
ATOM	9699	CG2	VAL	C	855	19.668	72.283	45.642	1.00	16.59	C
ATOM	9700	C	VAL	C	855	20.482	73.533	48.326	1.00	14.10	C
ATOM	9701	O	VAL	C	855	20.052	74.310	49.171	1.00	14.10	C
ATOM	9702	N	GLU	C	856	20.670	72.234	48.555	1.00	35.45	C
ATOM	9703	CA	GLU	C	856	20.402	71.619	49.852	1.00	35.45	C
ATOM	9704	CB	GLU	C	856	21.115	70.282	49.971	1.00	62.29	C
ATOM	9705	CG	GLU	C	856	20.921	69.332	48.827	1.00	62.29	C
ATOM	9706	CD	GLU	C	856	21.821	68.125	48.981	1.00	62.29	C



ATOM	9707	OE1	GLU	C	856	21.750	67.452	50.038	1.00	62.29	C
ATOM	9708	OE2	GLU	C	856	22.609	67.855	48.051	1.00	62.29	C
ATOM	9709	C	GLU	C	856	20.924	72.508	50.969	1.00	35.45	C
ATOM	9710	O	GLU	C	856	20.382	72.534	52.067	1.00	35.45	C
ATOM	9711	N	ASP	C	857	22.015	73.203	50.696	1.00	52.98	C
ATOM	9712	CA	ASP	C	857	22.582	74.101	51.676	1.00	52.98	C
ATOM	9713	CB	ASP	C	857	24.080	73.858	51.793	1.00	31.39	C
ATOM	9714	CG	ASP	C	857	24.387	72.454	52.271	1.00	31.39	C
ATOM	9715	OD1	ASP	C	857	23.670	71.995	53.181	1.00	31.39	C
ATOM	9716	OD2	ASP	C	857	25.330	71.810	51.753	1.00	31.39	C
ATOM	9717	C	ASP	C	857	22.267	75.521	51.230	1.00	52.98	C
ATOM	9718	O	ASP	C	857	21.123	75.812	50.867	1.00	52.98	C
ATOM	9719	N	MET	C	858	23.259	76.404	51.230	1.00	35.76	C
ATOM	9720	CA	MET	C	858	23.011	77.787	50.830	1.00	35.76	C
ATOM	9721	CB	MET	C	858	22.194	77.820	49.530	1.00	16.55	C
ATOM	9722	CG	MET	C	858	22.960	77.257	48.370	1.00	16.55	C
ATOM	9723	SD	MET	C	858	24.634	77.926	48.386	1.00	16.55	C
ATOM	9724	CE	MET	C	858	24.321	79.453	47.528	1.00	16.55	C
ATOM	9725	C	MET	C	858	22.265	78.517	51.945	1.00	35.76	C
ATOM	9726	O	MET	C	858	22.374	78.155	53.116	1.00	35.76	C
ATOM	9727	N	PRO	C	859	21.546	79.589	51.607	1.00	59.65	C
ATOM	9728	CD	PRO	C	859	21.970	80.618	50.641	1.00	69.85	C
ATOM	9729	CA	PRO	C	859	20.859	80.221	52.725	1.00	59.65	C
ATOM	9730	CB	PRO	C	859	21.655	81.502	52.896	1.00	69.85	C
ATOM	9731	CG	PRO	C	859	21.903	81.910	51.466	1.00	69.85	C
ATOM	9732	C	PRO	C	859	19.364	80.460	52.439	1.00	59.65	C
ATOM	9733	O	PRO	C	859	18.931	81.603	52.283	1.00	59.65	C
ATOM	9734	N	ALA	C	860	18.588	79.375	52.379	1.00	57.41	C
ATOM	9735	CA	ALA	C	860	17.142	79.431	52.115	1.00	57.41	C
ATOM	9736	CB	ALA	C	860	16.391	78.318	52.933	1.00	5.07	C
ATOM	9737	C	ALA	C	860	16.553	80.793	52.452	1.00	57.41	C
ATOM	9738	O	ALA	C	860	16.683	81.263	53.580	1.00	57.41	C
ATOM	9739	N	LEU	C	861	15.934	81.450	51.479	1.00	31.25	C
ATOM	9740	CA	LEU	C	861	15.300	82.726	51.778	1.00	31.25	C
ATOM	9741	CB	LEU	C	861	14.834	83.423	50.498	1.00	26.02	C
ATOM	9742	CG	LEU	C	861	14.736	84.960	50.547	1.00	26.02	C
ATOM	9743	CD1	LEU	C	861	16.093	85.533	50.919	1.00	26.02	C
ATOM	9744	CD2	LEU	C	861	14.258	85.528	49.209	1.00	26.02	C
ATOM	9745	C	LEU	C	861	14.107	82.209	52.576	1.00	31.25	C
ATOM	9746	O	LEU	C	861	13.994	80.998	52.771	1.00	31.25	C
ATOM	9747	N	PRO	C	862	13.202	83.085	53.048	1.00	45.19	C
ATOM	9748	CD	PRO	C	862	13.204	84.553	53.087	1.00	49.83	C
ATOM	9749	CA	PRO	C	862	12.066	82.568	53.815	1.00	45.19	C
ATOM	9750	CB	PRO	C	862	11.422	83.830	54.363	1.00	49.83	C
ATOM	9751	CG	PRO	C	862	11.756	84.844	53.340	1.00	49.83	C
ATOM	9752	C	PRO	C	862	11.056	81.664	53.121	1.00	45.19	C
ATOM	9753	O	PRO	C	862	10.532	80.740	53.747	1.00	45.19	C
ATOM	9754	N	ASP	C	863	10.789	81.916	51.840	1.00	19.47	C
ATOM	9755	CA	ASP	C	863	9.811	81.120	51.090	1.00	19.47	C
ATOM	9756	CB	ASP	C	863	8.980	82.036	50.215	1.00	32.30	C
ATOM	9757	CG	ASP	C	863	9.775	82.584	49.074	1.00	32.30	C
ATOM	9758	OD1	ASP	C	863	9.360	83.601	48.496	1.00	32.30	C
ATOM	9759	OD2	ASP	C	863	10.822	81.990	48.746	1.00	32.30	C
ATOM	9760	C	ASP	C	863	10.467	80.091	50.192	1.00	19.47	C
ATOM	9761	O	ASP	C	863	9.867	79.626	49.228	1.00	19.47	C
ATOM	9762	N	GLY	C	864	11.710	79.757	50.497	1.00	53.01	C
ATOM	9763	CA	GLY	C	864	12.434	78.805	49.680	1.00	53.01	C
ATOM	9764	C	GLY	C	864	13.495	79.544	48.891	1.00	53.01	C
ATOM	9765	O	GLY	C	864	14.421	80.116	49.464	1.00	53.01	C
ATOM	9766	N	THR	C	865	13.346	79.549	47.574	1.00	38.13	C
ATOM	9767	CA	THR	C	865	14.291	80.218	46.694	1.00	38.13	C
ATOM	9768	CB	THR	C	865	13.911	81.698	46.462	1.00	56.51	C
ATOM	9769	OG1	THR	C	865	13.730	82.342	47.726	1.00	56.51	C
ATOM	9770	CG2	THR	C	865	12.630	81.811	45.633	1.00	56.51	C
ATOM	9771	C	THR	C	865	15.696	80.181	47.269	1.00	38.13	C
ATOM	9772	O	THR	C	865	16.038	80.983	48.133	1.00	38.13	C
ATOM	9773	N	PRO	C	866	16.536	79.250	46.793	1.00	19.58	C
ATOM	9774	CD	PRO	C	866	16.488	78.478	45.538	1.00	57.39	C
ATOM	9775	CA	PRO	C	866	17.886	79.219	47.345	1.00	19.58	C
ATOM	9776	CB	PRO	C	866	18.512	78.048	46.620	1.00	57.39	C
ATOM	9777	CG	PRO	C	866	17.971	78.243	45.249	1.00	57.39	C
ATOM	9778	C	PRO	C	866	18.506	80.515	46.905	1.00	19.58	C
ATOM	9779	O	PRO	C	866	17.885	81.292	46.180	1.00	19.58	C
ATOM	9780	N	VAL	C	867	19.729	80.756	47.332	1.00	52.39	C
ATOM	9781	CA	VAL	C	867	20.383	81.963	46.907	1.00	52.39	C
ATOM	9782	CB	VAL	C	867	21.013	82.694	48.090	1.00	22.98	C
ATOM	9783	CG1	VAL	C	867	21.695	83.958	47.613	1.00	22.98	C
ATOM	9784	CG2	VAL	C	867	19.940	83.057	49.072	1.00	22.98	C
ATOM	9785	C	VAL	C	867	21.429	81.595	45.866	1.00	52.39	C
ATOM	9786	O	VAL	C	867	22.191	80.646	46.035	1.00	52.39	C
ATOM	9787	N	ASP	C	868	21.426	82.334	44.767	1.00	36.26	C
ATOM	9788	CA	ASP	C	868	22.368	82.101	43.706	1.00	36.26	C
ATOM	9789	CB	ASP	C	868	22.234	83.169	42.622	1.00	64.66	C
ATOM	9790	CG	ASP	C	868	21.019	82.961	41.747	1.00	64.66	C



ATOM	9791	OD1	ASP	C	968	20.744	81.796	41.397	1.00	64.66	C
ATOM	9792	OD2	ASP	C	868	20.346	83.954	41.394	1.00	64.66	C
ATOM	9793	C	ASP	C	868	23.792	82.102	44.236	1.00	36.26	C
ATOM	9794	O	ASP	C	868	24.351	81.043	44.510	1.00	36.26	C
ATOM	9795	N	VAL	C	869	24.379	83.286	44.407	1.00	20.02	C
ATOM	9796	CA	VAL	C	869	25.764	83.361	44.849	1.00	20.02	C
ATOM	9797	CB	VAL	C	869	26.652	83.772	43.688	1.00	36.58	C
ATOM	9798	CG1	VAL	C	869	27.459	85.022	44.042	1.00	36.58	C
ATOM	9799	CG2	VAL	C	869	27.536	82.576	43.299	1.00	36.58	C
ATOM	9800	C	VAL	C	869	26.044	84.269	46.016	1.00	20.02	C
ATOM	9801	O	VAL	C	869	25.534	85.374	46.076	1.00	20.02	C
ATOM	9802	N	ILE	C	870	26.878	83.783	46.929	1.00	44.04	C
ATOM	9803	CA	ILE	C	870	27.270	84.494	48.143	1.00	44.04	C
ATOM	9804	CB	ILE	C	870	27.496	83.509	49.294	1.00	15.22	C
ATOM	9805	CG2	ILE	C	870	28.318	84.174	50.408	1.00	15.22	C
ATOM	9806	CG1	ILE	C	870	26.174	82.957	49.795	1.00	15.22	C
ATOM	9807	CD	ILE	C	870	26.377	81.914	50.899	1.00	15.22	C
ATOM	9808	C	ILE	C	870	28.590	85.241	47.981	1.00	44.04	C
ATOM	9809	O	ILE	C	870	29.575	84.661	47.530	1.00	44.04	C
ATOM	9810	N	LEU	C	871	28.609	86.514	48.372	1.00	16.83	C
ATOM	9811	CA	LEU	C	871	29.818	87.335	48.325	1.00	16.83	C
ATOM	9812	CB	LEU	C	871	29.553	88.652	47.580	1.00	35.83	C
ATOM	9813	CG	LEU	C	871	29.890	88.781	46.078	1.00	35.83	C
ATOM	9814	CD1	LEU	C	871	29.426	87.574	45.300	1.00	35.83	C
ATOM	9815	CD2	LEU	C	871	29.241	90.029	45.514	1.00	35.83	C
ATOM	9816	C	LEU	C	871	30.179	87.590	49.792	1.00	16.83	C
ATOM	9817	O	LEU	C	871	29.319	87.498	50.671	1.00	16.83	C
ATOM	9818	N	ASN	C	872	31.443	87.895	50.069	1.00	57.66	C
ATOM	9819	CA	ASN	C	872	31.867	88.127	51.449	1.00	57.66	C
ATOM	9820	CB	ASN	C	872	33.271	87.615	51.690	1.00	30.76	C
ATOM	9821	CG	ASN	C	872	33.717	87.867	53.101	1.00	30.76	C
ATOM	9822	OD1	ASN	C	872	32.923	88.300	53.946	1.00	30.76	C
ATOM	9823	ND2	ASN	C	872	34.984	87.588	53.381	1.00	30.76	C
ATOM	9824	C	ASN	C	872	31.829	89.564	51.931	1.00	57.66	C
ATOM	9825	O	ASN	C	872	32.784	90.315	51.759	1.00	57.66	C
ATOM	9826	N	PRO	C	873	30.756	89.930	52.630	1.00	24.13	C
ATOM	9827	CD	PRO	C	873	30.040	88.951	53.463	1.00	100100.07	C
ATOM	9828	CA	PRO	C	873	30.552	91.276	53.164	1.00	24.13	C
ATOM	9829	CB	PRO	C	873	29.469	91.067	54.208	1.00	100100.07	C
ATOM	9830	CG	PRO	C	873	29.821	89.726	54.747	1.00	100100.07	C
ATOM	9831	C	PRO	C	873</						



ATOM	9875	O	ARG	C	879	38.993	100.323	51.633	1.00	38.33	C
ATOM	9876	N	MET	C	880	37.871	98.547	50.770	1.00	35.34	C
ATOM	9877	CA	MET	C	880	37.830	98.960	49.384	1.00	35.34	C
ATOM	9878	CB	MET	C	880	37.513	97.705	48.579	1.00	95.06	C
ATOM	9879	CG	MET	C	880	37.955	96.454	49.345	1.00	95.06	C
ATOM	9880	SD	MET	C	880	37.783	94.867	48.513	1.00	95.06	C
ATOM	9881	CE	MET	C	880	39.395	94.119	48.842	1.00	95.06	C
ATOM	9882	C	MET	C	880	36.913	100.135	48.993	1.00	35.34	C
ATOM	9883	O	MET	C	880	37.002	100.636	47.865	1.00	35.34	C
ATOM	9884	N	ASN	C	881	36.045	100.576	49.907	1.00	7.65	C
ATOM	9885	CA	ASN	C	881	35.136	101.713	49.658	1.00	7.65	C
ATOM	9886	CB	ASN	C	881	35.912	103.058	49.617	1.00	29.82	C
ATOM	9887	CG	ASN	C	881	37.019	103.188	50.695	1.00	29.82	C
ATOM	9888	OD1	ASN	C	881	37.795	104.154	50.679	1.00	29.82	C
ATOM	9889	ND2	ASN	C	881	37.091	102.232	51.617	1.00	29.82	C
ATOM	9890	C	ASN	C	881	34.362	101.601	48.330	1.00	7.65	C
ATOM	9891	O	ASN	C	881	34.843	102.077	47.316	1.00	7.65	C
ATOM	9892	N	LEU	C	882	33.175	101.001	48.323	1.00	45.54	C
ATOM	9893	CA	LEU	C	882	32.390	100.878	47.085	1.00	45.54	C
ATOM	9894	CB	LEU	C	882	32.932	99.735	46.223	1.00	13.17	C
ATOM	9895	CG	LEU	C	882	33.340	98.477	46.999	1.00	13.17	C
ATOM	9896	CD1	LEU	C	882	33.223	97.214	46.156	1.00	13.17	C
ATOM	9897	CD2	LEU	C	882	34.756	98.670	47.469	1.00	13.17	C
ATOM	9898	C	LEU	C	882	30.889	100.644	47.301	1.00	45.54	C
ATOM	9899	O	LEU	C	882	30.497	99.632	47.869	1.00	45.54	C
ATOM	9900	N	GLY	C	883	30.053	101.574	46.845	1.00	28.44	C
ATOM	9901	CA	GLY	C	883	28.620	101.407	46.979	1.00	28.44	C
ATOM	9902	C	GLY	C	883	28.130	100.495	45.856	1.00	28.44	C
ATOM	9903	O	GLY	C	883	27.422	100.929	44.934	1.00	28.44	C
ATOM	9904	N	GLN	C	884	28.552	99.229	45.889	1.00	100.07	C
ATOM	9905	CA	GLN	C	884	28.121	98.234	44.894	1.00	100.07	C
ATOM	9906	CB	GLN	C	884	28.981	96.962	44.971	1.00	20.42	C
ATOM	9907	CG	GLN	C	884	29.085	96.368	46.371	1.00	20.42	C
ATOM	9908	CD	GLN	C	884	30.264	95.417	46.546	1.00	20.42	C
ATOM	9909	OE1	GLN	C	884	30.266	94.296	46.025	1.00	20.42	C
ATOM	9910	NE2	GLN	C	884	31.275	95.862	47.291	1.00	20.42	C
ATOM	9911	C	GLN	C	884	26.743	97.922	45.400	1.00	100.07	C
ATOM	9912	O	GLN	C	884	25.778	97.745	44.656	1.00	100.07	C
ATOM	9913	N	ILE	C	885	26.707	97.877	46.719	1.00	48.67	C
ATOM	9914	CA	ILE	C	885	25.539	97.624	47.502	1.00	48.67	C
ATOM	9915	CB	ILE	C	885	25.816	98.135	48.890	1.00	5.07	C
ATOM	9916	CG2	ILE	C	885	24.652	97.826	49.810	1.00	5.07	C
ATOM	9917	CG1	ILE	C	885	27.111	97.499	49.390	1.00	5.07	C
ATOM	9918	CD	ILE	C	885	27.175	95.993	49.180	1.00	5.07	C
ATOM	9919	C	ILE	C	885	24.287	98.271	46.921	1.00	48.67	C
ATOM	9920	O	ILE	C	885	23.231	97.640	46.864	1.00	48.67	C
ATOM	9921	N	LEU	C	886	24.395	99.520	46.483	1.00	44.11	C
ATOM	9922	CA	LEU	C	886	23.240	100.186	45.901	1.00	44.11	C
ATOM	9923	CB	LEU	C	886	23.497	101.683	45.749	1.00	20.52	C
ATOM	9924	CG	LEU	C	886	23.731	102.478	47.042	1.00	20.52	C
ATOM	9925	CD1	LEU	C	886	24.076	103.893	46.651	1.00	20.52	C
ATOM	9926	CD2	LEU	C	886	22.520	102.459	47.950	1.00	20.52	C
ATOM	9927	C	LEU	C	886	22.914	99.554	44.553	1.00	44.11	C
ATOM	9928	O	LEU	C	886	22.866	100.208	43.516	1.00	44.11	C
ATOM	9929	N	GLU	C	887	22.707	98.249	44.603	1.00	46.04	C
ATOM	9930	CA	GLU	C	887	22.359	97.446	43.452	1.00	46.04	C
ATOM	9931	CB	GLU	C	887	23.604	96.979	42.697	1.00	47.41	C
ATOM	9932	CG	GLU	C	887	23.277	96.054	41.527	1.00	47.41	C
ATOM	9933	CD	GLU	C	887	24.510	95.534	40.793	1.00	47.41	C
ATOM	9934	OE1	GLU	C	887	25.343	96.353	40.346	1.00	47.41	C
ATOM	9935	OE2	GLU	C	887	24.640	94.300	40.651	1.00	47.41	C
ATOM	9936	C	GLU	C	887	21.670	96.256	44.084	1.00	46.04	C
ATOM	9937	O	GLU	C	887	20.512	95.973	43.822	1.00	46.04	C
ATOM	9938	N	THR	C	888	22.400	95.572	44.944	1.00	15.52	C
ATOM	9939	CA	THR	C	888	21.879	94.422	45.646	1.00	15.52	C
ATOM	9940	CB	THR	C	888	22.929	93.960	46.629	1.00	39.97	C
ATOM	9941	OG1	THR	C	888	24.218	94.175	46.049	1.00	39.97	C
ATOM	9942	CG2	THR	C	888	22.750	92.496	46.967	1.00	39.97	C
ATOM	9943	C	THR	C	888	20.596	94.826	46.414	1.00	15.52	C
ATOM	9944	O	THR	C	888	19.844	93.969	46.913	1.00	15.52	C
ATOM	9945	N	HIS	C	889	20.377	96.140	46.537	1.00	46.14	C
ATOM	9946	CA	HIS	C	889	19.202	96.680	47.221	1.00	46.14	C
ATOM	9947	CB	HIS	C	889	19.553	97.940	48.004	1.00	27.47	C
ATOM	9948	CG	HIS	C	889	20.365	97.674	49.238	1.00	27.47	C
ATOM	9949	CD2	HIS	C	889	20.865	96.521	49.748	1.00	27.47	C
ATOM	9950	ND1	HIS	C	889	20.758	98.673	50.105	1.00	27.47	C
ATOM	9951	CE1	HIS	C	889	21.464	98.149	51.092	1.00	27.47	C
ATOM	9952	NE2	HIS	C	889	21.546	96.846	50.900	1.00	27.47	C
ATOM	9953	C	HIS	C	889	18.164	96.984	46.161	1.00	46.14	C
ATOM	9954	O	HIS	C	889	17.050	96.473	46.228	1.00	46.14	C
ATOM	9955	N	LEU	C	890	18.506	97.811	45.177	1.00	12.42	C
ATOM	9956	CA	LEU	C	890	17.556	98.061	44.097	1.00	12.42	C
ATOM	9957	CB	LEU	C	890	17.953	99.282	43.255	1.00	5.07	C
ATOM	9958	CG	LEU	C	890	17.402	99.344	41.815	1.00	5.07	C



ATOM	9959	CD1	LEU	C	890	15.901	99.132	41.832	1.00	5.07	C
ATOM	9960	CD2	LEU	C	890	17.759	100.655	41.155	1.00	5.07	C
ATOM	9961	C	LEU	C	890	17.662	96.782	43.271	1.00	12.42	C
ATOM	9962	O	LEU	C	890	17.508	96.780	42.047	1.00	12.42	C
ATOM	9963	N	GLY	C	891	17.957	95.689	43.977	1.00	80.89	C
ATOM	9964	CA	GLY	C	891	18.101	94.378	43.368	1.00	80.89	C
ATOM	9965	C	GLY	C	891	16.847	93.573	43.603	1.00	80.89	C
ATOM	9966	O	GLY	C	891	16.156	93.221	42.650	1.00	80.89	C
ATOM	9967	N	LEU	C	892	16.552	93.266	44.862	1.00	28.36	C
ATOM	9968	CA	LEU	C	892	15.327	92.537	45.141	1.00	28.36	C
ATOM	9969	CB	LEU	C	892	15.209	92.169	46.621	1.00	22.53	C
ATOM	9970	CG	LEU	C	892	15.498	93.223	47.673	1.00	22.53	C
ATOM	9971	CD1	LEU	C	892	15.167	92.669	49.058	1.00	22.53	C
ATOM	9972	CD2	LEU	C	892	16.968	93.612	47.574	1.00	22.53	C
ATOM	9973	C	LEU	C	892	14.201	93.477	44.730	1.00	28.36	C
ATOM	9974	O	LEU	C	892	13.146	93.049	44.240	1.00	28.36	C
ATOM	9975	N	ALA	C	893	14.435	94.770	44.911	1.00	61.38	C
ATOM	9976	CA	ALA	C	893	13.450	95.767	44.512	1.00	61.38	C
ATOM	9977	CB	ALA	C	893	13.846	97.133	45.041	1.00	75.49	C
ATOM	9978	C	ALA	C	893	13.458	95.759	42.985	1.00	61.38	C
ATOM	9979	O	ALA	C	893	13.635	96.791	42.330	1.00	61.38	C
ATOM	9980	N	GLY	C	894	13.278	94.567	42.434	1.00	25.17	C
ATOM	9981	CA	GLY	C	894	13.289	94.396	41.002	1.00	25.17	C
ATOM	9982	C	GLY	C	894	13.146	92.922	40.706	1.00	25.17	C
ATOM	9983	O	GLY	C	894	12.765	92.526	39.612	1.00	25.17	C
ATOM	9984	N	TYR	C	895	13.484	92.092	41.679	1.00	33.29	C
ATOM	9985	CA	TYR	C	895	13.336	90.658	41.493	1.00	33.29	C
ATOM	9986	CB	TYR	C	895	13.982	89.895	42.654	1.00	53.00	C
ATOM	9987	CG	TYR	C	895	13.958	88.386	42.546	1.00	53.00	C
ATOM	9988	CD1	TYR	C	895	14.226	87.743	41.342	1.00	53.00	C
ATOM	9989	CE1	TYR	C	895	14.276	86.336	41.262	1.00	53.00	C
ATOM	9990	CD2	TYR	C	895	13.732	87.596	43.675	1.00	53.00	C
ATOM	9991	CE2	TYR	C	895	13.779	86.191	43.617	1.00	53.00	C
ATOM	9992	CZ	TYR	C	895	14.052	85.561	42.408	1.00	53.00	C
ATOM	9993	OH	TYR	C	895	14.109	84.172	42.349	1.00	53.00	C
ATOM	9994	C	TYR	C	895	11.830	90.532	41.542	1.00	33.29	C
ATOM	9995	O	TYR	C	895	11.190	90.167	40.558	1.00	33.29	C
ATOM	9996	N	PHE	C	896	11.259	90.905	42.681	1.00	57.33	C
ATOM	9997	CA	PHE	C	896	9.822	90.831	42.866	1.00	57.33	C
ATOM	9998	CB	PHE	C	896	9.481	91.161	44.313	1.00	57.92	C
ATOM	9999	CG	PHE	C							



ATOM	10043	CD1	TYR	C	901	15.321	98.229	38.159	1.00	71.06
ATOM	10044	CE1	TYR	C	901	14.298	97.767	38.982	1.00	71.06
ATOM	10045	CD2	TYR	C	901	14.833	100.473	38.809	1.00	71.06
ATOM	10046	CE2	TYR	C	901	13.807	100.020	39.632	1.00	71.06
ATOM	10047	CZ	TYR	C	901	13.548	98.668	39.716	1.00	71.06
ATOM	10048	OH	TYR	C	901	12.559	98.209	40.545	1.00	71.06
ATOM	10049	C	TYR	C	901	17.736	100.420	35.003	1.00	35.63
ATOM	10050	O	TYR	C	901	18.665	99.759	34.546	1.00	35.63
ATOM	10051	N	ILE	C	902	17.668	101.736	34.913	1.00	63.08
ATOM	10052	CA	ILE	C	902	18.717	102.496	34.286	1.00	63.08
ATOM	10053	CB	ILE	C	902	18.319	102.961	32.901	1.00	46.56
ATOM	10054	CG2	ILE	C	902	19.411	103.828	32.313	1.00	46.56
ATOM	10055	CG1	ILE	C	902	18.090	101.747	32.012	1.00	46.56
ATOM	10056	CD	ILE	C	902	17.913	102.092	30.539	1.00	46.56
ATOM	10057	C	ILE	C	902	18.979	103.700	35.167	1.00	63.08
ATOM	10058	O	ILE	C	902	18.351	104.751	35.011	1.00	63.08
ATOM	10059	N	SER	C	903	19.893	103.516	36.118	1.00	61.88
ATOM	10060	CA	SER	C	903	20.295	104.558	37.057	1.00	61.88
ATOM	10061	CB	SER	C	903	20.390	103.992	38.474	1.00	76.79
ATOM	10062	OG	SER	C	903	21.504	103.133	38.631	1.00	76.79
ATOM	10063	C	SER	C	903	21.664	105.021	36.604	1.00	61.88
ATOM	10064	O	SER	C	903	22.676	104.654	37.186	1.00	61.88
ATOM	10065	N	PRO	C	904	21.709	105.843	35.553	1.00	11.83
ATOM	10066	CD	PRO	C	904	20.609	106.624	34.970	1.00	47.87
ATOM	10067	CA	PRO	C	904	22.990	106.324	35.050	1.00	11.83
ATOM	10068	CB	PRO	C	904	22.582	107.471	34.123	1.00	47.87
ATOM	10069	CG	PRO	C	904	21.282	107.924	34.702	1.00	47.87
ATOM	10070	C	PRO	C	904	24.032	106.743	36.090	1.00	11.83
ATOM	10071	O	PRO	C	904	23.742	106.859	37.285	1.00	11.83
ATOM	10072	N	VAL	C	905	25.251	106.951	35.592	1.00	12.06
ATOM	10073	CA	VAL	C	905	26.419	107.381	36.354	1.00	12.06
ATOM	10074	CB	VAL	C	905	27.656	107.246	35.487	1.00	25.52
ATOM	10075	CG1	VAL	C	905	28.740	108.164	35.972	1.00	25.52
ATOM	10076	CG2	VAL	C	905	28.118	105.832	35.509	1.00	25.52
ATOM	10077	C	VAL	C	905	26.336	108.841	36.820	1.00	12.06
ATOM	10078	O	VAL	C	905	26.450	109.768	36.004	1.00	12.06
ATOM	10079	N	PHE	C	906	26.147	109.037	38.123	1.00	53.53
ATOM	10080	CA	PHE	C	906	26.060	110.375	38.708	1.00	53.53
ATOM	10081	CB	PHE	C	906	27.130	111.287	38.109	1.00	22.89
ATOM	10082	CG	PHE	C	906	28.524	110.944	38.531	1.00	22.89
ATOM	10083	CD1	PHE	C	906	29.574	111.028	37.624	1.00	22.89
ATOM	10084	CD2	PHE	C	906	28.787	110.549	39.838		



ATOM	10127	CG	PRO	C	912	15.632	108.940	48.564	1.00	32.33	C
ATOM	10128	C	PRO	C	912	14.533	106.342	48.093	1.00	69.29	C
ATOM	10129	O	PRO	C	912	13.562	105.606	48.251	1.00	69.29	C
ATOM	10130	N	GLU	C	913	14.905	106.826	46.914	1.00	66.75	C
ATOM	10131	CA	GLU	C	913	14.185	106.530	45.687	1.00	66.75	C
ATOM	10132	CB	GLU	C	913	14.948	107.078	44.484	1.00	51.23	C
ATOM	10133	CG	GLU	C	913	14.042	107.683	43.441	1.00	51.23	C
ATOM	10134	CD	GLU	C	913	14.636	108.931	42.818	1.00	51.23	C
ATOM	10135	OE1	GLU	C	913	15.610	108.801	42.044	1.00	51.23	C
ATOM	10136	OE2	GLU	C	913	14.129	110.041	43.111	1.00	51.23	C
ATOM	10137	C	GLU	C	913	14.079	105.033	45.595	1.00	66.75	C
ATOM	10138	O	GLU	C	913	13.136	104.494	45.022	1.00	66.75	C
ATOM	10139	N	ILE	C	914	15.072	104.376	46.181	1.00	47.22	C
ATOM	10140	CA	ILE	C	914	15.142	102.929	46.215	1.00	47.22	C
ATOM	10141	CB	ILE	C	914	16.556	102.490	46.592	1.00	36.83	C
ATOM	10142	CG2	ILE	C	914	16.545	101.059	47.104	1.00	36.83	C
ATOM	10143	CG1	ILE	C	914	17.474	102.678	45.381	1.00	36.83	C
ATOM	10144	CD	ILE	C	914	18.925	102.965	45.746	1.00	36.83	C
ATOM	10145	C	ILE	C	914	14.137	102.424	47.238	1.00	47.22	C
ATOM	10146	O	ILE	C	914	13.233	101.657	46.906	1.00	47.22	C
ATOM	10147	N	LYS	C	915	14.293	102.870	48.480	1.00	83.17	C
ATOM	10148	CA	LYS	C	915	13.383	102.480	49.547	1.00	83.17	C
ATOM	10149	CB	LYS	C	915	13.551	103.410	50.745	1.00	42.61	C
ATOM	10150	CG	LYS	C	915	14.938	103.374	51.372	1.00	42.61	C
ATOM	10151	CD	LYS	C	915	15.264	102.017	52.002	1.00	42.61	C
ATOM	10152	CE	LYS	C	915	16.398	102.149	53.021	1.00	42.61	C
ATOM	10153	NZ	LYS	C	915	17.566	102.917	52.482	1.00	42.61	C
ATOM	10154	C	LYS	C	915	11.952	102.560	49.025	1.00	83.17	C
ATOM	10155	O	LYS	C	915	11.190	101.611	49.153	1.00	83.17	C
ATOM	10156	N	GLU	C	916	11.593	103.701	48.439	1.00	47.84	C
ATOM	10157	CA	GLU	C	916	10.259	103.886	47.871	1.00	47.84	C
ATOM	10158	CB	GLU	C	916	10.201	105.195	47.064	1.00	100.07	C
ATOM	10159	CG	GLU	C	916	9.106	105.238	45.991	1.00	100.07	C
ATOM	10160	CD	GLU	C	916	9.412	106.226	44.863	1.00	100.07	C
ATOM	10161	OE1	GLU	C	916	10.559	106.227	44.360	1.00	100.07	C
ATOM	10162	OE2	GLU	C	916	8.505	106.990	44.465	1.00	100.07	C
ATOM	10163	C	GLU	C	916	10.059	102.703	46.937	1.00	47.84	C
ATOM	10164	O	GLU	C	916	9.176	101.861	47.122	1.00	47.84	C
ATOM	10165	N	LEU	C	917	10.934	102.649	45.945	1.00	81.59	C
ATOM	10166	CA	LEU	C	917	10.925					



ATOM	10211	N	ASN	C	923	5.667	95.007	49.626	1.00	62.06	C
ATOM	10212	CA	ASN	C	923	4.212	95.118	49.688	1.00	62.06	C
ATOM	10213	CB	ASN	C	923	3.742	96.518	49.281	1.00	89.21	C
ATOM	10214	CG	ASN	C	923	3.670	97.473	50.463	1.00	89.21	C
ATOM	10215	OD1	ASN	C	923	3.197	97.110	51.544	1.00	89.21	C
ATOM	10216	ND2	ASN	C	923	4.125	98.702	50.260	1.00	89.21	C
ATOM	10217	C	ASN	C	923	3.506	94.078	48.841	1.00	62.06	C
ATOM	10218	O	ASN	C	923	2.294	94.129	48.662	1.00	62.06	C
ATOM	10219	N	LEU	C	924	4.281	93.146	48.303	1.00	47.73	C
ATOM	10220	CA	LEU	C	924	3.742	92.057	47.514	1.00	47.73	C
ATOM	10221	CB	LEU	C	924	3.881	92.316	46.019	1.00	23.71	C
ATOM	10222	CG	LEU	C	924	4.708	93.489	45.513	1.00	23.71	C
ATOM	10223	CD1	LEU	C	924	4.658	93.419	43.992	1.00	23.71	C
ATOM	10224	CD2	LEU	C	924	4.178	94.850	46.032	1.00	23.71	C
ATOM	10225	C	LEU	C	924	4.517	90.818	47.886	1.00	47.73	C
ATOM	10226	O	LEU	C	924	3.945	89.739	48.032	1.00	47.73	C
ATOM	10227	N	TYR	C	925	5.828	90.977	48.038	1.00	29.69	C
ATOM	10228	CA	TYR	C	925	6.668	89.857	48.416	1.00	29.69	C
ATOM	10229	CB	TYR	C	925	8.094	90.305	48.698	1.00	48.02	C
ATOM	10230	CG	TYR	C	925	8.743	89.505	49.804	1.00	48.02	C
ATOM	10231	CD1	TYR	C	925	9.045	88.150	49.640	1.00	48.02	C
ATOM	10232	CE1	TYR	C	925	9.594	87.401	50.683	1.00	48.02	C
ATOM	10233	CD2	TYR	C	925	9.010	90.089	51.036	1.00	48.02	C
ATOM	10234	CE2	TYR	C	925	9.554	89.351	52.075	1.00	48.02	C
ATOM	10235	CZ	TYR	C	925	9.843	88.013	51.896	1.00	48.02	C
ATOM	10236	OH	TYR	C	925	10.378	87.305	52.941	1.00	48.02	C
ATOM	10237	C	TYR	C	925	6.056	89.350	49.689	1.00	29.69	C
ATOM	10238	O	TYR	C	925	6.118	88.165	49.998	1.00	29.69	C
ATOM	10239	N	PHE	C	926	5.469	90.269	50.436	1.00	98.59	C
ATOM	10240	CA	PHE	C	926	4.832	89.893	51.668	1.00	98.59	C
ATOM	10241	CB	PHE	C	926	5.189	90.854	52.787	1.00	51.90	C
ATOM	10242	CG	PHE	C	926	4.920	90.292	54.131	1.00	51.90	C
ATOM	10243	CD1	PHE	C	926	5.135	88.937	54.371	1.00	51.90	C
ATOM	10244	CD2	PHE	C	926	4.475	91.091	55.160	1.00	51.90	C
ATOM	10245	CE1	PHE	C	926	4.913	88.382	55.620	1.00	51.90	C
ATOM	10246	CE2	PHE	C	926	4.249	90.547	56.423	1.00	51.90	C
ATOM	10247	CZ	PHE	C	926	4.470	89.186	56.652	1.00	51.90	C
ATOM	10248	C	PHE	C	926	3.333	89.847	51.478	1.00	98.59	C
ATOM	10249	O	PHE	C	926	2.590	89.526	52.404	1.00	98.59	C
ATOM	10250	N	GLY	C	927	2.893	90.184	50.271	1.00	98.95	C
ATOM	10251	CA	GLY	C	927	1.477	90.135	49.963	1.00	98.95	C
ATOM	10252	C	GLY	C	927	1.133	88.669	49.783	1.00	98.95	C
ATOM	10253	O	GLY	C	927	-0.022	88.259	49.904	1.00	98.95	C
ATOM	10254	N	LYS	C	928	2.165	87.880	49.490	1.00	49.42	C
ATOM	10255	CA	LYS	C	928	2.027	86.441	49.302	1.00	49.42	C
ATOM	10256	CB	LYS	C	928	3.387	85.786	49.020	1.00	99.83	C
ATOM	10257	CG	LYS	C	928	4.359	86.565	48.138	1.00	99.83	C
ATOM	10258	CD	LYS	C	928	5.699	85.820	48.044	1.00	99.83	C
ATOM	10259	CE	LYS	C	928	6.749	86.622	47.285	1.00	99.83	C
ATOM	10260	NZ	LYS	C	928	8.028	85.873	47.109	1.00	99.83	C
ATOM	10261	C	LYS	C	928	1.498	85.864	50.606	1.00	49.42	C
ATOM	10262	O	LYS	C	928	0.299	85.873	50.868	1.00	49.42	C
ATOM	10263	N	ARG	C	929	2.430	85.364	51.409	1.00	37.71	C
ATOM	10264	CA	ARG	C	929	2.140	84.779	52.700	1.00	37.71	C
ATOM	10265	CB	ARG	C	929	3.271	85.128	53.657	1.00	81.61	C
ATOM	10266	CG	ARG	C	929	4.619	84.729	53.097	1.00	81.61	C
ATOM	10267	CD	ARG	C	929	5.742	85.373	53.857	1.00	81.61	C
ATOM	10268	NE	ARG	C	929	5.714	85.008	55.262	1.00	81.61	C
ATOM	10269	CZ	ARG	C	929	6.634	85.392	56.133	1.00	81.61	C
ATOM	10270	NH1	ARG	C	929	7.647	86.149	55.736	1.00	81.61	C
ATOM	10271	NH2	ARG	C	929	6.541	85.019	57.399	1.00	81.61	C
ATOM	10272	C	ARG	C	929	0.813	85.313	53.209	1.00	37.71	C
ATOM	10273	O	ARG	C	929	-0.153	84.559	53.353	1.00	37.71	C
ATOM	10274	N	GLN	C	930	0.764	86.612	53.487	1.00	73.92	C
ATOM	10275	CA	GLN	C	930	-0.481	87.221	53.924	1.00	73.92	C
ATOM	10276	CB	GLN	C	930	-0.255	88.660	54.374	1.00	92.26	C
ATOM	10277	CG	GLN	C	930	0.750	88.787	55.499	1.00	92.26	C
ATOM	10278	CD	GLN	C	930	0.625	90.099	56.247	1.00	92.26	C
ATOM	10279	OE1	GLN	C	930	0.654	91.178	55.649	1.00	92.26	C
ATOM	10280	NE2	GLN	C	930	0.485	90.012	57.567	1.00	92.26	C
ATOM	10281	C	GLN	C	930	-1.310	87.174	52.650	1.00	73.92	C
ATOM	10282	O	GLN	C	930	-1.453	88.163	51.926	1.00	73.92	C
ATOM	10283	N	GLY	C	931	-1.813	85.975	52.385	1.00	45.05	C
ATOM	10284	CA	GLY	C	931	-2.604	85.683	51.210	1.00	45.05	C
ATOM	10285	C	GLY	C	931	-2.421	84.190	51.048	1.00	45.05	C
ATOM	10286	O	GLY	C	931	-3.281	83.408	51.461	1.00	45.05	C
ATOM	10287	N	GLU	C	932	-1.277	83.797	50.488	1.00	60.13	C
ATOM	10288	CA	GLU	C	932	-0.955	82.388	50.281	1.00	60.13	C
ATOM	10289	CB	GLU	C	932	0.548	82.206	50.044	1.00	98.24	C
ATOM	10290	CG	GLU	C	932	1.063	82.817	48.754	1.00	98.24	C
ATOM	10291	CD	GLU	C	932	2.266	82.068	48.198	1.00	98.24	C
ATOM	10292	OE1	GLU	C	932	3.247	81.870	48.948	1.00	98.24	C
ATOM	10293	OE2	GLU	C	932	2.229	81.679	47.010	1.00	98.24	C
ATOM	10294	C	GLU	C	932	-1.378	81.547	51.483	1.00	60.13	C







ATOM	10379	CB	VAL	C	943	15.567	84.348	66.134	1.00100.07	C
ATOM	10380	CG1	VAL	C	943	17.035	84.407	66.560	1.00100.07	C
ATOM	10381	CG2	VAL	C	943	15.039	82.921	66.233	1.00100.07	C
ATOM	10382	C	VAL	C	943	14.976	86.737	66.670	1.00 48.32	C
ATOM	10383	O	VAL	C	943	14.757	87.628	67.497	1.00 48.32	C
ATOM	10384	N	LEU	C	944	15.422	86.969	65.436	1.00 40.93	C
ATOM	10385	CA	LEU	C	944	15.757	88.302	64.932	1.00 40.93	C
ATOM	10386	CB	LEU	C	944	15.659	88.329	63.411	1.00 60.07	C
ATOM	10387	CG	LEU	C	944	16.688	87.441	62.715	1.00 60.07	C
ATOM	10388	CD1	LEU	C	944	16.246	85.985	62.777	1.00 60.07	C
ATOM	10389	CD2	LEU	C	944	16.842	87.890	61.274	1.00 60.07	C
ATOM	10390	C	LEU	C	944	14.957	89.454	65.512	1.00 40.93	C
ATOM	10391	O	LEU	C	944	15.479	90.230	66.310	1.00 40.93	C
ATOM	10392	N	ALA	C	945	13.704	89.572	65.091	1.00 38.12	C
ATOM	10393	CA	ALA	C	945	12.836	90.625	65.584	1.00 38.12	C
ATOM	10394	CB	ALA	C	945	11.407	90.114	65.671	1.00100.07	C
ATOM	10395	C	ALA	C	945	13.320	91.096	66.958	1.00 38.12	C
ATOM	10396	O	ALA	C	945	13.366	92.289	67.228	1.00 38.12	C
ATOM	10397	N	ARG	C	946	13.661	90.160	67.836	1.00 48.91	C
ATOM	10398	CA	ARG	C	946	14.181	90.556	69.131	1.00 48.91	C
ATOM	10399	CB	ARG	C	946	14.446	89.335	70.025	1.00100.07	C
ATOM	10400	CG	ARG	C	946	13.193	88.586	70.477	1.00100.07	C
ATOM	10401	CD	ARG	C	946	13.519	87.373	71.369	1.00100.07	C
ATOM	10402	NE	ARG	C	946	12.321	86.590	71.697	1.00100.07	C
ATOM	10403	CZ	ARG	C	946	12.314	85.492	72.451	1.00100.07	C
ATOM	10404	NH1	ARG	C	946	13.445	85.029	72.970	1.00100.07	C
ATOM	10405	NH2	ARG	C	946	11.173	84.852	72.687	1.00100.07	C
ATOM	10406	C	ARG	C	946	15.498	91.207	68.736	1.00 48.91	C
ATOM	10407	O	ARG	C	946	15.535	92.375	68.347	1.00 48.91	C
ATOM	10408	N	ALA	C	947	16.566	90.416	68.779	1.00 34.81	C
ATOM	10409	CA	ALA	C	947	17.919	90.862	68.440	1.00 34.81	C
ATOM	10410	CB	ALA	C	947	18.625	89.778	67.616	1.00 33.10	C
ATOM	10411	C	ALA	C	947	18.065	92.220	67.749	1.00 34.81	C
ATOM	10412	O	ALA	C	947	18.525	93.177	68.359	1.00 34.81	C
ATOM	10413	N	GLU	C	948	17.663	92.332	66.494	1.00 31.69	C
ATOM	10414	CA	GLU	C	948	17.858	93.602	65.823	1.00 31.69	C
ATOM	10415	CB	GLU	C	948	17.310	93.566	64.395	1.00100.07	C
ATOM	10416	CG	GLU	C	948	15.905	94.088	64.237	1.00100.07	C
ATOM	10417	CD	GLU	C	948	14.945	93.447	65.212	1.00100.07	C
ATOM	10418	OE1	GLU	C	948	15.056	92.225	65.428	1.00100.07	C
ATOM	10419	OE2	GLU	C	948	14.080	94.164	65.759	1.00100.07	C
ATOM	10420	C	GLU	C	948	17.326	94.834	66.551	1.00 31.69	C
ATOM	10421	O	GLU	C	948	18.046	95.827	66.661	1.00 31.69	C
ATOM	10422	N	LYS	C	949	16.098	94.803	67.066	1.00 68.91	C
ATOM	10423	CA	LYS	C	949	15.586	95.995	67.742	1.00 68.91	C
ATOM	10424	CB	LYS	C	949	14.186	95.773	68.332	1.00 46.24	C
ATOM	10425	CG	LYS	C	949	14.140	95.089	69.686	1.00 46.24	C
ATOM	10426	CD	LYS	C	949	12.816	95.354	70.398	1.00 46.24	C
ATOM	10427	CE	LYS	C	949	11.632	94.708	69.688	1.00 46.24	C
ATOM	10428	NZ	LYS	C	949	11.372	95.219	68.310	1.00 46.24	C
ATOM	10429	C	LYS	C	949	16.564	96.359	68.840	1.00 68.91	C
ATOM	10430	O	LYS	C	949	16.754	97.532	69.150	1.00 68.91	C
ATOM	10431	N	LEU	C	950	17.193	95.340	69.417	1.00 30.74	C
ATOM	10432	CA	LEU	C	950	18.179	95.549	70.458	1.00 30.74	C
ATOM	10433	CB	LEU	C	950	18.600	94.206	71.067	1.00 99.55	C
ATOM	10434	CG	LEU	C	950	17.569	93.391	71.869	1.00 99.55	C
ATOM	10435	CD1	LEU	C	950	16.345	93.102	71.026	1.00 99.55	C
ATOM	10436	CD2	LEU	C	950	18.194	92.080	72.340	1.00 99.55	C
ATOM	10437	C	LEU	C	950	19.359	96.211	69.756	1.00 30.74	C
ATOM	10438	O	LEU	C	950	20.496	95.767	69.868	1.00 30.74	C
ATOM	10439	N	GLY	C	951	19.068	97.275	69.016	1.00 56.95	C
ATOM	10440	CA	GLY	C	951	20.095	97.992	68.288	1.00 56.95	C
ATOM	10441	C	GLY	C	951	19.926	97.793	66.797	1.00 56.95	C
ATOM	10442	O	GLY	C	951	20.687	97.029	66.199	1.00 56.95	C
ATOM	10443	N	LEU	C	952	18.929	98.474	66.218	1.00 89.26	C
ATOM	10444	CA	LEU	C	952	18.592	98.417	64.786	1.00 89.26	C
ATOM	10445	CB	LEU	C	952	19.331	97.274	64.100	1.00 36.22	C
ATOM	10446	CG	LEU	C	952	18.842	96.852	62.717	1.00 36.22	C
ATOM	10447	CD1	LEU	C	952	18.763	98.082	61.807	1.00 36.22	C
ATOM	10448	CD2	LEU	C	952	19.790	95.785	62.145	1.00 36.22	C
ATOM	10449	C	LEU	C	952	17.088	98.227	64.576	1.00 89.26	C
ATOM	10450	O	LEU	C	952	16.434	97.588	65.395	1.00 89.26	C
ATOM	10451	N	VAL	C	953	16.551	98.771	63.478	1.00 34.55	C
ATOM	10452	CA	VAL	C	953	15.111	98.679	63.138	1.00 34.55	C
ATOM	10453	CB	VAL	C	953	14.627	97.220	63.000	1.00 40.33	C
ATOM	10454	CG1	VAL	C	953	14.110	96.691	64.342	1.00 40.33	C
ATOM	10455	CG2	VAL	C	953	13.513	97.162	61.987	1.00 40.33	C
ATOM	10456	C	VAL	C	953	14.119	99.349	64.109	1.00 34.55	C
ATOM	10457	O	VAL	C	953	14.311	99.343	65.335	1.00 34.55	C
ATOM	10458	N	SER	C	954	13.039	99.895	63.556	1.00 75.53	C
ATOM	10459	CA	SER	C	954	12.016	100.559	64.363	1.00 75.53	C
ATOM	10460	CB	SER	C	954	10.830	100.943	63.474	1.00 67.76	C
ATOM	10461	OG	SER	C	954	11.212	101.907	62.504	1.00 67.76	C
ATOM	10462	C	SER	C	954	11.548	99.653	65.507	1.00 75.53	C



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ATOM	10463	O	SER	C	954	10.861	98.663	65.270	1.00	75.53	C
ATOM	10464	N	PRO	C	955	11.909	99.989	66.764	1.00	69.46	C
ATOM	10465	CD	PRO	C	955	12.816	101.089	67.139	1.00	94.74	C
ATOM	10466	CA	PRO	C	955	11.541	99.212	67.957	1.00	69.46	C
ATOM	10467	CB	PRO	C	955	12.649	99.558	68.936	1.00	94.74	C
ATOM	10468	CG	PRO	C	955	12.816	101.013	68.672	1.00	94.74	C
ATOM	10469	C	PRO	C	955	10.184	99.525	68.550	1.00	69.46	C
ATOM	10470	O	PRO	C	955	9.579	100.547	68.247	1.00	69.46	C
ATOM	10471	N	GLY	C	956	9.714	98.630	69.409	1.00	71.64	C
ATOM	10472	CA	GLY	C	956	8.438	98.847	70.055	1.00	71.64	C
ATOM	10473	C	GLY	C	956	7.165	98.338	69.398	1.00	71.64	C
ATOM	10474	O	GLY	C	956	6.475	97.512	69.992	1.00	71.64	C
ATOM	10475	N	LYS	C	957	6.840	98.791	68.187	1.00	34.57	C
ATOM	10476	CA	LYS	C	957	5.583	98.353	67.590	1.00	34.57	C
ATOM	10477	CB	LYS	C	957	4.733	99.574	67.232	1.00	100.07	C
ATOM	10478	CG	LYS	C	957	3.255	99.242	66.987	1.00	100.07	C
ATOM	10479	CD	LYS	C	957	2.572	98.743	68.266	1.00	100.07	C
ATOM	10480	CE	LYS	C	957	1.092	98.432	68.044	1.00	100.07	C
ATOM	10481	NZ	LYS	C	957	0.391	98.021	69.301	1.00	100.07	C
ATOM	10482	C	LYS	C	957	5.516	97.371	66.418	1.00	34.57	C
ATOM	10483	O	LYS	C	957	5.900	97.677	65.279	1.00	34.57	C
ATOM	10484	N	SER	C	958	4.976	96.195	66.736	1.00	53.75	C
ATOM	10485	CA	SER	C	958	4.735	95.105	65.796	1.00	53.75	C
ATOM	10486	CB	SER	C	958	3.728	95.542	64.738	1.00	27.38	C
ATOM	10487	OG	SER	C	958	3.760	94.645	63.637	1.00	27.38	C
ATOM	10488	C	SER	C	958	5.874	94.427	65.070	1.00	53.75	C
ATOM	10489	O	SER	C	958	6.828	95.071	64.641	1.00	53.75	C
ATOM	10490	N	PRO	C	959	5.751	93.099	64.887	1.00	40.02	C
ATOM	10491	CD	PRO	C	959	4.633	92.332	65.465	1.00	84.92	C
ATOM	10492	CA	PRO	C	959	6.689	92.196	64.215	1.00	40.02	C
ATOM	10493	CB	PRO	C	959	6.268	90.833	64.732	1.00	84.92	C
ATOM	10494	CG	PRO	C	959	4.786	90.981	64.805	1.00	84.92	C
ATOM	10495	C	PRO	C	959	6.523	92.306	62.702	1.00	40.02	C
ATOM	10496	O	PRO	C	959	7.487	92.474	61.966	1.00	40.02	C
ATOM	10497	N	GLU	C	960	5.287	92.198	62.242	1.00	17.23	C
ATOM	10498	CA	GLU	C	960	5.022	92.321	60.828	1.00	17.23	C
ATOM	10499	CB	GLU	C	960	3.527	92.186	60.563	1.00	99.51	C
ATOM	10500	CG	GLU	C	960	3.123	92.591	59.159	1.00	99.51	C
ATOM	10501	CD	GLU	C	960	1.634	92.485	58.936	1.00	99.51	C
ATOM	10502	OE1	GLU	C	960	1.171	92.850	57.831	1.00	99.51	C
ATOM	10503	OE2	GLU	C	960	0.929	92.035	59.867	1.00	99.51	C
ATOM	10504	C	GLU	C	960	5.498	93.705	60.402	1.00	17.23	C
ATOM	10505	O	GLU	C	960	5.744	93.964	59.223	1.00	17.23	C
ATOM	10506	N	GLU	C	961	5.616	94.606	61.370	1.00	57.30	C
ATOM	10507	CA	GLU	C	961	6.058	95.959	61.072	1.00	57.30	C
ATOM	10508	CB	GLU	C	961	5.621	96.925	62.177	1.00	100.07	C
ATOM	10509	CG	GLU	C	961	4.189	97.431	62.010	1.00	100.07	C
ATOM	10510	CD	GLU	C	961	3.820	98.501	63.019	1.00	100.07	C
ATOM	10511	OE1	GLU	C	961	4.637	99.425	63.225	1.00	100.07	C
ATOM	10512	OE2	GLU	C	961	2.712	98.425	63.597	1.00	100.07	C
ATOM	10513	C	GLU	C	961	7.560	95.987	60.914	1.00	57.30	C
ATOM	10514	O	GLU	C	961	8.089	96.782	60.132	1.00	57.30	C
ATOM	10515	N	GLN	C	962	8.231	95.102	61.654	1.00	62.87	C
ATOM	10516	CA	GLN	C	962	9.693	94.966	61.639	1.00	62.87	C
ATOM	10517	CB	GLN	C	962	10.139	93.938	62.686	1.00	100.07	C
ATOM	10518	CG	GLN	C	962	9.924	94.373	64.126	1.00	100.07	C
ATOM	10519	CD	GLN	C	962	10.982	95.344	64.608	1.00	100.07	C
ATOM	10520	OE1	GLN	C	962	11.282	96.339	63.946	1.00	100.07	C
ATOM	10521	NE2	GLN	C	962	11.550	95.062	65.774	1.00	100.07	C
ATOM	10522	C	GLN	C	962	10.235	94.548	60.273	1.00	62.87	C
ATOM	10523	O	GLN	C	962	11.320	94.969	59.869	1.00	62.87	C
ATOM	10524	N	LEU	C	963	9.487	93.707	59.568	1.00	62.04	C
ATOM	10525	CA	LEU	C	963	9.930	93.276	58.264	1.00	62.04	C
ATOM	10526	CB	LEU	C	963	9.018	92.191	57.715	1.00	60.02	C
ATOM	10527	CG	LEU	C	963	9.717	90.850	57.913	1.00	60.02	C
ATOM	10528	CD1	LEU	C	963	10.990	90.832	57.084	1.00	60.02	C
ATOM	10529	CD2	LEU	C	963	10.056	90.654	59.380	1.00	60.02	C
ATOM	10530	C	LEU	C	963	10.015	94.447	57.312	1.00	62.04	C
ATOM	10531	O	LEU	C	963	11.111	94.939	57.062	1.00	62.04	C
ATOM	10532	N	LYS	C	964	8.882	94.908	56.783	1.00	69.67	C
ATOM	10533	CA	LYS	C	964	8.900	96.052	55.867	1.00	69.67	C
ATOM	10534	CB	LYS	C	964	7.554	96.768	55.871	1.00	42.42	C
ATOM	10535	CG	LYS	C	964	7.465	97.952	54.930	1.00	42.42	C
ATOM	10536	CD	LYS	C	964	6.329	98.870	55.343	1.00	42.42	C
ATOM	10537	CE	LYS	C	964	5.962	99.848	54.245	1.00	42.42	C
ATOM	10538	NZ	LYS	C	964	5.250	99.167	53.131	1.00	42.42	C
ATOM	10539	C	LYS	C	964	9.982	97.011	56.352	1.00	69.67	C
ATOM	10540	O	LYS	C	964	10.799	97.500	55.566	1.00	69.67	C
ATOM	10541	N	GLU	C	965	9.984	97.254	57.661	1.00	61.72	C
ATOM	10542	CA	GLU	C	965	10.972	98.121	58.279	1.00	61.72	C
ATOM	10543	CB	GLU	C	965	10.805	98.101	59.799	1.00	100.07	C
ATOM	10544	CG	GLU	C	965	11.591	99.171	60.534	1.00	100.07	C
ATOM	10545	CD	GLU	C	965	11.095	100.571	60.233	1.00	100.07	C
ATOM	10546	OE1	GLU	C	965	9.898	100.836	60.475	1.00	100.07	C







ATOM	10631	O	TYR	C	975	19.150	80.319	58.380	1.00	47.42	C
ATOM	10632	N	ASP	C	976	19.215	79.727	56.207	1.00	24.95	C
ATOM	10633	CA	ASP	C	976	20.433	78.896	56.306	1.00	24.95	C
ATOM	10634	CB	ASP	C	976	21.222	79.150	57.614	1.00	61.71	C
ATOM	10635	CG	ASP	C	976	22.563	78.392	57.675	1.00	61.71	C
ATOM	10636	OD1	ASP	C	976	23.352	78.469	56.708	1.00	61.71	C
ATOM	10637	OD2	ASP	C	976	22.840	77.732	58.702	1.00	61.71	C
ATOM	10638	C	ASP	C	976	20.024	77.436	56.220	1.00	24.95	C
ATOM	10639	O	ASP	C	976	20.222	76.655	57.157	1.00	24.95	C
ATOM	10640	N	GLY	C	977	19.452	77.100	55.064	1.00	32.37	C
ATOM	10641	CA	GLY	C	977	18.982	75.757	54.759	1.00	32.37	C
ATOM	10642	C	GLY	C	977	19.751	74.550	55.279	1.00	32.37	C
ATOM	10643	O	GLY	C	977	19.296	73.409	55.098	1.00	32.37	C
ATOM	10644	N	ARG	C	978	20.910	74.772	55.892	1.00	45.31	C
ATOM	10645	CA	ARG	C	978	21.653	73.658	56.436	1.00	45.31	C
ATOM	10646	CB	ARG	C	978	22.922	74.130	57.128	1.00	40.73	C
ATOM	10647	CG	ARG	C	978	23.865	74.893	56.235	1.00	40.73	C
ATOM	10648	CD	ARG	C	978	25.173	75.112	56.953	1.00	40.73	C
ATOM	10649	NE	ARG	C	978	26.230	75.584	56.070	1.00	40.73	C
ATOM	10650	CZ	ARG	C	978	27.525	75.487	56.355	1.00	40.73	C
ATOM	10651	NH1	ARG	C	978	27.933	74.938	57.496	1.00	40.73	C
ATOM	10652	NH2	ARG	C	978	28.421	75.938	55.497	1.00	40.73	C
ATOM	10653	C	ARG	C	978	20.711	73.021	57.448	1.00	45.31	C
ATOM	10654	O	ARG	C	978	20.507	71.807	57.429	1.00	45.31	C
ATOM	10655	N	THR	C	979	20.126	73.846	58.319	1.00	29.33	C
ATOM	10656	CA	THR	C	979	19.172	73.373	59.326	1.00	29.33	C
ATOM	10657	CB	THR	C	979	19.787	72.292	60.253	1.00	99.95	C
ATOM	10658	OG1	THR	C	979	19.884	71.047	59.551	1.00	99.95	C
ATOM	10659	CG2	THR	C	979	18.915	72.090	61.491	1.00	99.95	C
ATOM	10660	C	THR	C	979	18.666	74.499	60.214	1.00	29.33	C
ATOM	10661	O	THR	C	979	17.515	74.950	60.087	1.00	29.33	C
ATOM	10662	N	GLY	C	980	19.562	74.923	61.110	1.00	49.26	C
ATOM	10663	CA	GLY	C	980	19.318	75.973	62.091	1.00	49.26	C
ATOM	10664	C	GLY	C	980	18.201	76.976	61.893	1.00	49.26	C
ATOM	10665	O	GLY	C	980	17.653	77.458	62.866	1.00	49.26	C
ATOM	10666	N	GLU	C	981	17.878	77.287	60.643	1.00	100.07	C
ATOM	10667	CA	GLU	C	981	16.830	78.239	60.282	1.00	100.07	C
ATOM	10668	CB	GLU	C	981	15.481	77.895	60.957	1.00	100.07	C
ATOM	10669	CG	GLU	C	981	14.551	76.979	60.111	1.00	100.07	C
ATOM	10670	CD	GLU	C	981	13.055	77.391	60.125	1.00	100.07	C
ATOM	10671	OE1	GLU	C	981	12.668	78.375	59.451	1.00	100.07	C
ATOM	10672	OE2	GLU	C	981	12.255	76.719	60.811	1.00	100.07	C
ATOM	10673	C	GLU	C	981	17.139	79.728	60.485	1.00	100.07	C
ATOM	10674	O	GLU	C	981	17.034	80.505	59.536	1.00	100.07	C
ATOM	10675	N	PRO	C	982	17.519	80.166	61.701	1.00	33.96	C
ATOM	10676	CD	PRO	C	982	17.191	79.843	63.099	1.00	37.75	C
ATOM	10677	CA	PRO	C	982	17.731	81.609	61.565	1.00	33.96	C
ATOM	10678	CB	PRO	C	982	16.926	82.173	62.717	1.00	37.75	C
ATOM	10679	CG	PRO	C	982	17.300	81.212	63.795	1.00	37.75	C
ATOM	10680	C	PRO	C	982	19.178	82.044	61.633	1.00	33.96	C
ATOM	10681	O	PRO	C	982	20.030	81.405	62.271	1.00	33.96	C
ATOM	10682	N	PHE	C	983	19.440	83.136	60.939	1.00	15.71	C
ATOM	10683	CA	PHE	C	983	20.750	83.727	60.933	1.00	15.71	C
ATOM	10684	CB	PHE	C	983	21.157	84.070	59.507	1.00	51.89	C
ATOM	10685	CG	PHE	C	983	22.133	83.099	58.906	1.00	51.89	C
ATOM	10686	CD1	PHE	C	983	22.171	82.895	57.533	1.00	51.89	C
ATOM	10687	CD2	PHE	C	983	23.034	82.410	59.710	1.00	51.89	C
ATOM	10688	CE1	PHE	C	983	23.089	82.020	56.971	1.00	51.89	C
ATOM	10689	CE2	PHE	C	983	23.958	81.533	59.154	1.00	51.89	C
ATOM	10690	CZ	PHE	C	983	23.983	81.340	57.782	1.00	51.89	C
ATOM	10691	C	PHE	C	983	20.500	84.975	61.757	1.00	15.71	C
ATOM	10692	O	PHE	C	983	20.055	85.996	61.234	1.00	15.71	C
ATOM	10693	N	GLU	C	984	20.749	84.862	63.056	1.00	26.64	C
ATOM	10694	CA	GLU	C	984	20.537	85.951	63.998	1.00	26.64	C
ATOM	10695	CB	GLU	C	984	21.262	85.633	65.310	1.00	85.70	C
ATOM	10696	CG	GLU	C	984	22.694	85.131	65.125	1.00	85.70	C
ATOM	10697	CD	GLU	C	984	23.174	84.266	66.288	1.00	85.70	C
ATOM	10698	OE1	GLU	C	984	22.524	83.236	66.560	1.00	85.70	C
ATOM	10699	OE2	GLU	C	984	24.195	84.604	66.928	1.00	85.70	C
ATOM	10700	C	GLU	C	984	20.995	87.290	63.462	1.00	26.64	C
ATOM	10701	O	GLU	C	984	22.172	87.599	63.542	1.00	26.64	C
ATOM	10702	N	GLY	C	985	20.070	88.088	62.928	1.00	28.68	C
ATOM	10703	CA	GLY	C	985	20.436	89.389	62.375	1.00	28.68	C
ATOM	10704	C	GLY	C	985	20.371	89.361	60.855	1.00	28.68	C
ATOM	10705	O	GLY	C	985	21.150	88.650	60.224	1.00	28.68	C
ATOM	10706	N	PRO	C	986	19.472	90.146	60.237	1.00	60.08	C
ATOM	10707	CD	PRO	C	986	18.942	91.340	60.912	1.00	54.17	C
ATOM	10708	CA	PRO	C	986	19.248	90.253	58.786	1.00	60.08	C
ATOM	10709	CB	PRO	C	986	18.557	91.603	58.645	1.00	54.17	C
ATOM	10710	CG	PRO	C	986	19.064	92.369	59.828	1.00	54.17	C
ATOM	10711	C	PRO	C	986	20.483	90.171	57.905	1.00	60.08	C
ATOM	10712	O	PRO	C	986	21.591	90.407	58.375	1.00	60.08	C
ATOM	10713	N	ILE	C	987	20.282	89.840	56.627	1.00	19.00	C
ATOM	10714	CA	ILE	C	987	21.383	89.743	55.662	1.00	19.00	C



ATOM	10715	CB	ILE	C	987	21.830	88.304	55.405	1.00	5.60	C
ATOM	10716	CG2	ILE	C	987	22.717	88.247	54.179	1.00	5.60	C
ATOM	10717	CG1	ILE	C	987	22.575	87.761	56.603	1.00	5.60	C
ATOM	10718	CD	ILE	C	987	21.653	87.194	57.600	1.00	5.60	C
ATOM	10719	C	ILE	C	987	20.995	90.287	54.305	1.00	19.00	C
ATOM	10720	O	ILE	C	987	20.447	89.543	53.506	1.00	19.00	C
ATOM	10721	N	VAL	C	988	21.291	91.552	54.015	1.00	71.61	C
ATOM	10722	CA	VAL	C	988	20.911	92.103	52.719	1.00	71.61	C
ATOM	10723	CB	VAL	C	988	21.744	93.340	52.350	1.00	10.10	C
ATOM	10724	CG1	VAL	C	988	22.612	93.720	53.498	1.00	10.10	C
ATOM	10725	CG2	VAL	C	988	22.573	93.077	51.110	1.00	10.10	C
ATOM	10726	C	VAL	C	988	21.081	91.029	51.654	1.00	71.61	C
ATOM	10727	O	VAL	C	988	22.146	90.418	51.533	1.00	71.61	C
ATOM	10728	N	VAL	C	989	20.003	90.793	50.914	1.00	12.86	C
ATOM	10729	CA	VAL	C	989	19.948	89.790	49.857	1.00	12.86	C
ATOM	10730	CB	VAL	C	989	18.932	88.706	50.249	1.00	18.05	C
ATOM	10731	CG1	VAL	C	989	18.448	87.963	49.030	1.00	18.05	C
ATOM	10732	CG2	VAL	C	989	19.566	87.751	51.238	1.00	18.05	C
ATOM	10733	C	VAL	C	989	19.516	90.459	48.548	1.00	12.86	C
ATOM	10734	O	VAL	C	989	18.571	91.244	48.550	1.00	12.86	C
ATOM	10735	N	GLY	C	990	20.180	90.167	47.434	1.00	15.70	C
ATOM	10736	CA	GLY	C	990	19.774	90.815	46.194	1.00	15.70	C
ATOM	10737	C	GLY	C	990	20.474	90.417	44.901	1.00	15.70	C
ATOM	10738	O	GLY	C	990	21.599	89.901	44.904	1.00	15.70	C
ATOM	10739	N	GLN	C	991	19.803	90.667	43.778	1.00	44.81	C
ATOM	10740	CA	GLN	C	991	20.354	90.331	42.469	1.00	44.81	C
ATOM	10741	CB	GLN	C	991	19.261	90.377	41.413	1.00	67.84	C
ATOM	10742	CG	GLN	C	991	18.042	89.567	41.745	1.00	67.84	C
ATOM	10743	CD	GLN	C	991	17.152	89.406	40.542	1.00	67.84	C
ATOM	10744	OE1	GLN	C	991	16.740	90.390	39.920	1.00	67.84	C
ATOM	10745	NE2	GLN	C	991	16.853	88.160	40.195	1.00	67.84	C
ATOM	10746	C	GLN	C	991	21.465	91.281	42.058	1.00	44.81	C
ATOM	10747	O	GLN	C	991	21.224	92.459	41.814	1.00	44.81	C
ATOM	10748	N	MET	C	992	22.684	90.777	41.961	1.00	34.86	C
ATOM	10749	CA	MET	C	992	23.772	91.650	41.580	1.00	34.86	C
ATOM	10750	CB	MET	C	992	25.035	91.337	42.365	1.00	37.01	C
ATOM	10751	CG	MET	C	992	26.069	92.436	42.285	1.00	37.01	C
ATOM	10752	SD	MET	C	992	27.484	92.047	43.296	1.00	37.01	C
ATOM	10753	CE	MET	C	992	26.771	92.246	44.909	1.00	37.01	C
ATOM	10754	C	MET	C	992	24.063	91.569	40.105	1.00	34.86	C
ATOM	10755	O	MET	C	992	23.283	92.087	39.309	1.00	34.86	C
ATOM	10756	N	PHE	C	993	25.168	90.914	39.738	1.00	45.01	C
ATOM	10757	CA	PHE	C	993	25.573	90.804	38.328	1.00	45.01	C
ATOM	10758	CB	PHE	C	993	25.326	92.145	37.663	1.00	24.03	C
ATOM	10759	CG	PHE	C	993	25.888	92.271	36.314	1.00	24.03	C
ATOM	10760	CD1	PHE	C	993	27.132	92.843	36.127	1.00	24.03	C
ATOM	10761	CD2	PHE	C	993	25.119	91.964	35.206	1.00	24.03	C
ATOM	10762	CE1	PHE	C	993	27.600	93.127	34.838	1.00	24.03	C
ATOM	10763	CE2	PHE	C	993	25.575	92.242	33.916	1.00	24.03	C
ATOM	10764	CZ	PHE	C	993	26.816	92.829	33.736	1.00	24.03	C
ATOM	10765	C	PHE	C	993	27.042	90.427	38.235	1.00	45.01	C
ATOM	10766	O	PHE	C	993	27.910	91.272	38.408	1.00	45.01	C
ATOM	10767	N	ILE	C	994	27.323	89.159	37.957	1.00	48.02	C
ATOM	10768	CA	ILE	C	994	28.708	88.694	37.894	1.00	48.02	C
ATOM	10769	CB	ILE	C	994	28.968	87.672	38.980	1.00	27.84	C
ATOM	10770	CG2	ILE	C	994	30.441	87.598	39.231	1.00	27.84	C
ATOM	10771	CG1	ILE	C	994	28.158	88.022	40.239	1.00	27.84	C
ATOM	10772	CD	ILE	C	994	28.305	89.456	40.722	1.00	27.84	C
ATOM	10773	C	ILE	C	994	29.199	88.092	36.565	1.00	48.02	C
ATOM	10774	O	ILE	C	994	28.906	86.937	36.226	1.00	48.02	C
ATOM	10775	N	MET	C	995	29.973	88.895	35.841	1.00	17.58	C
ATOM	10776	CA	MET	C	995	30.538	88.537	34.556	1.00	17.58	C
ATOM	10777	CB	MET	C	995	31.076	89.804	33.930	1.00	19.94	C
ATOM	10778	CG	MET	C	995	31.195	90.898	34.976	1.00	19.94	C
ATOM	10779	SD	MET	C	995	31.878	92.444	34.388	1.00	19.94	C
ATOM	10780	CE	MET	C	995	31.076	92.559	32.790	1.00	19.94	C
ATOM	10781	C	MET	C	995	31.645	87.536	34.821	1.00	17.58	C
ATOM	10782	O	MET	C	995	32.257	87.562	35.885	1.00	17.58	C
ATOM	10783	N	LYS	C	996	31.893	86.645	33.865	1.00	48.97	C
ATOM	10784	CA	LYS	C	996	32.927	85.624	34.026	1.00	48.97	C
ATOM	10785	CB	LYS	C	996	32.368	84.251	33.686	1.00	14.40	C
ATOM	10786	CG	LYS	C	996	33.415	83.160	33.589	1.00	14.40	C
ATOM	10787	CD	LYS	C	996	32.785	81.923	32.997	1.00	14.40	C
ATOM	10788	CE	LYS	C	996	33.745	80.763	32.926	1.00	14.40	C
ATOM	10789	NZ	LYS	C	996	33.030	79.579	32.379	1.00	14.40	C
ATOM	10790	C	LYS	C	996	34.166	85.856	33.180	1.00	48.97	C
ATOM	10791	O	LYS	C	996	34.215	85.465	32.015	1.00	48.97	C
ATOM	10792	N	LEU	C	997	35.174	86.465	33.788	1.00	24.30	C
ATOM	10793	CA	LEU	C	997	36.432	86.758	33.125	1.00	24.30	C
ATOM	10794	CB	LEU	C	997	37.354	87.378	34.150	1.00	5.72	C
ATOM	10795	CG	LEU	C	997	36.767	88.633	34.757	1.00	5.72	C
ATOM	10796	CD1	LEU	C	997	37.621	89.100	35.903	1.00	5.72	C
ATOM	10797	CD2	LEU	C	997	36.700	89.692	33.692	1.00	5.72	C
ATOM	10798	C	LEU	C	997	37.149	85.574	32.450	1.00	24.30	C



ATOM	10799	O	LEU	C	997	37.304	84.499	33.039	1.00	24.30	C
ATOM	10800	N	TYR	C	998	37.595	85.784	31.215	1.00	42.50	C
ATOM	10801	CA	TYR	C	998	38.327	84.764	30.465	1.00	42.50	C
ATOM	10802	CB	TYR	C	998	38.642	85.278	29.056	1.00	100.07	C
ATOM	10803	CG	TYR	C	998	39.674	84.484	28.280	1.00	100.07	C
ATOM	10804	CD1	TYR	C	998	39.579	83.097	28.162	1.00	100.07	C
ATOM	10805	CE1	TYR	C	998	40.505	82.367	27.388	1.00	100.07	C
ATOM	10806	CD2	TYR	C	998	40.720	85.132	27.613	1.00	100.07	C
ATOM	10807	CE2	TYR	C	998	41.649	84.416	26.837	1.00	100.07	C
ATOM	10808	CZ	TYR	C	998	41.534	83.035	26.729	1.00	100.07	C
ATOM	10809	OH	TYR	C	998	42.434	82.323	25.961	1.00	100.07	C
ATOM	10810	C	TYR	C	998	39.616	84.545	31.222	1.00	42.50	C
ATOM	10811	O	TYR	C	998	40.652	85.079	30.843	1.00	42.50	C
ATOM	10812	N	HIS	C	999	39.546	83.776	32.302	1.00	11.23	C
ATOM	10813	CA	HIS	C	999	40.710	83.510	33.130	1.00	11.23	C
ATOM	10814	CB	HIS	C	999	40.871	84.633	34.147	1.00	51.32	C
ATOM	10815	CG	HIS	C	999	42.177	85.354	34.060	1.00	51.32	C
ATOM	10816	CD2	HIS	C	999	43.176	85.493	34.965	1.00	51.32	C
ATOM	10817	ND1	HIS	C	999	42.566	86.062	32.949	1.00	51.32	C
ATOM	10818	CE1	HIS	C	999	43.747	86.607	33.166	1.00	51.32	C
ATOM	10819	NE2	HIS	C	999	44.143	86.279	34.383	1.00	51.32	C
ATOM	10820	C	HIS	C	999	40.423	82.218	33.864	1.00	11.23	C
ATOM	10821	O	HIS	C	999	40.959	81.975	34.954	1.00	11.23	C
ATOM	10822	N	MET	C	1000	39.553	81.403	33.269	1.00	39.96	C
ATOM	10823	CA	MET	C	1000	39.146	80.133	33.866	1.00	39.96	C
ATOM	10824	CB	MET	C	1000	38.187	79.382	32.926	1.00	53.24	C
ATOM	10825	CG	MET	C	1000	38.441	79.604	31.431	1.00	53.24	C
ATOM	10826	SD	MET	C	1000	37.162	80.576	30.552	1.00	53.24	C
ATOM	10827	CE	MET	C	1000	35.760	79.532	30.760	1.00	53.24	C
ATOM	10828	C	MET	C	1000	40.337	79.265	34.249	1.00	39.96	C
ATOM	10829	O	MET	C	1000	41.431	79.425	33.722	1.00	39.96	C
ATOM	10830	N	VAL	C	1001	40.123	78.356	35.187	1.00	10.65	C
ATOM	10831	CA	VAL	C	1001	41.197	77.506	35.646	1.00	10.65	C
ATOM	10832	CB	VAL	C	1001	40.784	76.619	36.771	1.00	16.57	C
ATOM	10833	CG1	VAL	C	1001	41.968	75.785	37.171	1.00	16.57	C
ATOM	10834	CG2	VAL	C	1001	40.246	77.435	37.926	1.00	16.57	C
ATOM	10835	C	VAL	C	1001	41.639	76.570	34.578	1.00	10.65	C
ATOM	10836	O	VAL	C	1001	42.832	76.421	34.353	1.00	10.65	C
ATOM	10837	N	GLU	C	1002	40.658	75.909	33.957	1.00	34.63	C
ATOM	10838	CA	GLU	C	1002	40.889	74.935	32.890	1.00	34.63	C
ATOM	10839	CB	GLU	C	1002	39.742	74.953	31.873	1.00	85.36	C
ATOM	10840	CG	GLU	C	1002	38.372	74.570	32.419	1.00	85.36	C
ATOM	10841	CD	GLU	C	1002	37.778	73.335	31.743	1.00	85.36	C
ATOM	10842	OE1	GLU	C	1002	38.234	72.204	32.027	1.00	85.36	C
ATOM	10843	OE2	GLU	C	1002	36.852	73.498	30.920	1.00	85.36	C
ATOM	10844	C	GLU	C	1002	42.176	75.268	32.179	1.00	34.63	C
ATOM	10845	O	GLU	C	1002	43.158	74.541	32.281	1.00	34.63	C
ATOM	10846	N	ASP	C	1003	42.147	76.390	31.467	1.00	33.92	C
ATOM	10847	CA	ASP	C	1003	43.283	76.892	30.712	1.00	33.92	C
ATOM	10848	CB	ASP	C	1003	43.020	78.325	30.263	1.00	45.68	C
ATOM	10849	CG	ASP	C	1003	42.406	78.401	28.892	1.00	45.68	C
ATOM	10850	OD1	ASP	C	1003	43.059	77.932	27.935	1.00	45.68	C
ATOM	10851	OD2	ASP	C	1003	41.281	78.931	28.763	1.00	45.68	C
ATOM	10852	C	ASP	C	1003	44.598	76.864	31.463	1.00	33.92	C
ATOM	10853	O	ASP	C	1003	45.651	76.971	30.837	1.00	33.92	C
ATOM	10854	N	LYS	C	1004	44.550	76.726	32.788	1.00	32.49	C
ATOM	10855	CA	LYS	C	1004	45.764	76.704	33.603	1.00	32.49	C
ATOM	10856	CB	LYS	C	1004	45.699	77.846	34.611	1.00	61.48	C
ATOM	10857	CG	LYS	C	1004	45.652	79.198	33.946	1.00	61.48	C
ATOM	10858	CD	LYS	C	1004	45.287	80.289	34.922	1.00	61.48	C
ATOM	10859	CE	LYS	C	1004	45.072	81.610	34.196	1.00	61.48	C
ATOM	10860	NZ	LYS	C	1004	44.325	82.583	35.043	1.00	61.48	C
ATOM	10861	C	LYS	C	1004	46.068	75.378	34.317	1.00	32.49	C
ATOM	10862	O	LYS	C	1004	45.385	74.379	34.117	1.00	32.49	C
ATOM	10863	N	MET	C	1005	47.108	75.383	35.144	1.00	29.86	C
ATOM	10864	CA	MET	C	1005	47.541	74.208	35.898	1.00	29.86	C
ATOM	10865	CB	MET	C	1005	46.439	73.715	36.846	1.00	50.48	C
ATOM	10866	CG	MET	C	1005	45.484	72.657	36.299	1.00	50.48	C
ATOM	10867	SD	MET	C	1005	44.955	71.438	37.556	1.00	50.48	C
ATOM	10868	CE	MET	C	1005	45.992	70.076	37.147	1.00	50.48	C
ATOM	10869	C	MET	C	1005	48.023	73.036	35.041	1.00	29.86	C
ATOM	10870	O	MET	C	1005	47.222	72.370	34.365	1.00	29.86	C
ATOM	10871	N	HIS	C	1006	49.344	72.816	35.063	1.00	15.86	C
ATOM	10872	CA	HIS	C	1006	49.997	71.721	34.350	1.00	15.86	C
ATOM	10873	CB	HIS	C	1006	51.107	72.243	33.428	1.00	98.34	C
ATOM	10874	CG	HIS	C	1006	51.129	71.579	32.079	1.00	98.34	C
ATOM	10875	CD2	HIS	C	1006	50.775	70.329	31.693	1.00	98.34	C
ATOM	10876	ND1	HIS	C	1006	51.524	72.235	30.930	1.00	98.34	C
ATOM	10877	CE1	HIS	C	1006	51.407	71.419	29.897	1.00	98.34	C
ATOM	10878	NE2	HIS	C	1006	50.954	70.257	30.332	1.00	98.34	C
ATOM	10879	C	HIS	C	1006	50.563	70.916	35.494	1.00	15.86	C
ATOM	10880	O	HIS	C	1006	50.202	71.176	36.629	1.00	15.86	C
ATOM	10881	N	ALA	C	1007	51.417	69.938	35.229	1.00	45.08	C
ATOM	10882	CA	ALA	C	1007	52.004	69.141	36.312	1.00	45.08	C



ATOM	10883	CB	ALA	C1007	50.919	68.388	37.072	1.00	20.02	
ATOM	10884	C	ALA	C1007	53.018	68.161	35.751	1.00	45.08	C
ATOM	10885	O	ALA	C1007	52.661	67.079	35.300	1.00	45.08	C
ATOM	10886	N	ARG	C1008	54.288	68.535	35.784	1.00	33.31	C
ATOM	10887	CA	ARG	C1008	55.319	67.675	35.242	1.00	33.31	C
ATOM	10888	CB	ARG	C1008	56.346	68.515	34.481	1.00	50.90	C
ATOM	10889	CG	ARG	C1008	57.556	67.717	34.042	1.00	50.90	C
ATOM	10890	CD	ARG	C1008	58.295	68.383	32.908	1.00	50.90	C
ATOM	10891	NE	ARG	C1008	59.433	67.577	32.492	1.00	50.90	C
ATOM	10892	CZ	ARG	C1008	60.219	67.861	31.459	1.00	50.90	C
ATOM	10893	NH1	ARG	C1008	60.001	68.939	30.714	1.00	50.90	C
ATOM	10894	NH2	ARG	C1008	61.232	67.058	31.171	1.00	50.90	C
ATOM	10895	C	ARG	C1008	56.040	66.780	36.247	1.00	33.31	C
ATOM	10896	O	ARG	C1008	56.488	67.234	37.294	1.00	33.31	C
ATOM	10897	N	SER	C1009	56.121	65.493	35.930	1.00	31.12	C
ATOM	10898	CA	SER	C1009	56.841	64.554	36.765	1.00	31.12	C
ATOM	10899	CB	SER	C1009	56.045	63.288	37.016	1.00	57.05	C
ATOM	10900	OG	SER	C1009	56.545	62.647	38.175	1.00	57.05	C
ATOM	10901	C	SER	C1009	57.988	64.260	35.841	1.00	31.12	C
ATOM	10902	O	SER	C1009	58.720	65.170	35.501	1.00	31.12	C
ATOM	10903	N	THR	C1010	58.136	63.018	35.402	1.00	59.25	C
ATOM	10904	CA	THR	C1010	59.225	62.689	34.492	1.00	59.25	C
ATOM	10905	CB	THR	C1010	59.061	61.263	33.944	1.00	100.00.07	C
ATOM	10906	OG1	THR	C1010	58.629	60.398	35.000	1.00	100.00.07	C
ATOM	10907	CG2	THR	C1010	60.381	60.743	33.399	1.00	100.00.07	C
ATOM	10908	C	THR	C1010	59.155	63.710	33.346	1.00	59.25	C
ATOM	10909	O	THR	C1010	59.607	64.843	33.488	1.00	59.25	C
ATOM	10910	N	GLY	C1011	58.592	63.323	32.208	1.00	58.45	C
ATOM	10911	CA	GLY	C1011	58.464	64.263	31.108	1.00	58.45	C
ATOM	10912	C	GLY	C1011	59.624	64.383	30.144	1.00	58.45	C
ATOM	10913	O	GLY	C1011	60.682	63.797	30.363	1.00	58.45	C
ATOM	10914	N	PRO	C1012	59.441	65.151	29.053	1.00	37.00	C
ATOM	10915	CD	PRO	C1012	58.130	65.729	28.709	1.00	44.34	C
ATOM	10916	CA	PRO	C1012	60.397	65.430	27.974	1.00	37.00	C
ATOM	10917	CB	PRO	C1012	59.513	65.996	26.877	1.00	44.34	C
ATOM	10918	CG	PRO	C1012	58.504	66.734	27.650	1.00	44.34	C
ATOM	10919	C	PRO	C1012	61.520	66.387	28.318	1.00	37.00	C
ATOM	10920	O	PRO	C1012	61.282	67.563	28.591	1.00	37.00	C
ATOM	10921	N	TYR	C1013	62.734	65.850	28.270	1.00	62.41	C
ATOM	10922	CA	TYR	C1013	64.000	66.534	28.538	1.00	62.41	C
ATOM	10923	CB	TYR	C1013	65.120	65.604	28.081	1.00	100.00.04	C
ATOM	10924	CG	TYR	C1013	64.853	64.945	26.7			



ATOM	10967	OE1	GLN	C1018	69.218	67.364	28.388	1.00	91.29	C
ATOM	10968	NE2	GLN	C1018	70.778	66.483	29.742	1.00	91.29	C
ATOM	10969	C	GLN	C1018	68.305	70.096	29.907	1.00	33.99	C
ATOM	10970	O	GLN	C1018	68.167	69.054	30.557	1.00	33.99	C
ATOM	10971	N	GLN	C1019	67.666	71.217	30.223	1.00	44.02	C
ATOM	10972	CA	GLN	C1019	66.731	71.232	31.342	1.00	44.02	C
ATOM	10973	CB	GLN	C1019	67.025	72.415	32.273	1.00	30.53	C
ATOM	10974	CG	GLN	C1019	67.290	73.725	31.560	1.00	30.53	C
ATOM	10975	CD	GLN	C1019	67.411	74.907	32.515	1.00	30.53	C
ATOM	10976	OE1	GLN	C1019	68.344	74.992	33.320	1.00	30.53	C
ATOM	10977	NE2	GLN	C1019	66.459	75.829	32.425	1.00	30.53	C
ATOM	10978	C	GLN	C1019	65.280	71.275	30.829	1.00	44.02	C
ATOM	10979	O	GLN	C1019	64.965	72.004	29.884	1.00	44.02	C
ATOM	10980	N	PRO	C1020	64.381	70.499	31.464	1.00	42.70	C
ATOM	10981	CD	PRO	C1020	64.652	70.085	32.856	1.00	38.29	C
ATOM	10982	CA	PRO	C1020	62.950	70.354	31.166	1.00	42.70	C
ATOM	10983	CB	PRO	C1020	62.323	70.349	32.549	1.00	38.29	C
ATOM	10984	CG	PRO	C1020	63.308	69.559	33.335	1.00	38.29	C
ATOM	10985	C	PRO	C1020	62.323	71.409	30.257	1.00	42.70	C
ATOM	10986	O	PRO	C1020	62.444	72.607	30.503	1.00	42.70	C
ATOM	10987	N	LEU	C1021	61.642	70.951	29.212	1.00	85.35	C
ATOM	10988	CA	LEU	C1021	60.982	71.844	28.262	1.00	85.35	C
ATOM	10989	CB	LEU	C1021	61.970	72.872	27.711	1.00	99.93	C
ATOM	10990	CG	LEU	C1021	61.389	74.271	27.509	1.00	99.93	C
ATOM	10991	CD1	LEU	C1021	60.152	74.200	26.615	1.00	99.93	C
ATOM	10992	CD2	LEU	C1021	61.038	74.865	28.866	1.00	99.93	C
ATOM	10993	C	LEU	C1021	60.374	71.042	27.110	1.00	85.35	C
ATOM	10994	O	LEU	C1021	60.953	70.058	26.644	1.00	85.35	C
ATOM	10995	N	GLY	C1022	59.210	71.476	26.642	1.00	100.07	C
ATOM	10996	CA	GLY	C1022	58.537	70.754	25.581	1.00	100.07	C
ATOM	10997	C	GLY	C1022	57.750	69.623	26.228	1.00	100.07	C
ATOM	10998	O	GLY	C1022	57.907	69.367	27.428	1.00	100.07	C
ATOM	10999	N	GLY	C1023	56.897	68.954	25.450	1.00	100.07	C
ATOM	11000	CA	GLY	C1023	56.107	67.856	25.991	1.00	100.07	C
ATOM	11001	C	GLY	C1023	55.164	67.123	25.046	1.00	100.07	C
ATOM	11002	O	GLY	C1023	53.944	67.333	25.086	1.00	100.07	C
ATOM	11003	N	LYS	C1024	55.722	66.257	24.201	1.00	100.07	C
ATOM	11004	CA	LYS	C1024	54.920	65.478	23.266	1.00	100.07	C
ATOM	11005	CB	LYS	C1024	55.802	64.878	22.164	1.00	97.81	C
ATOM	11006	CG	LYS	C1024	56.619	65.896	21.368	1.00	97.81	C
ATOM	11007	CD	LYS	C1024	57.317	65.261	20.153	1.00	97.81	C
ATOM	11008	CE	LYS	C1024	58.382	64.231	20.541	1.00	97.81	C
ATOM	11009	NZ	LYS	C1024	58.971	63.543	19.354	1.00	97.81	C
ATOM	11010	C	LYS	C1024	54.258	64.357	24.066	1.00	100.07	C
ATOM	11011	O	LYS	C1024	54.358	63.179	23.698	1.00	100.07	C
ATOM	11012	N	ALA	C1025	53.594	64.745	25.161	1.00	54.60	C
ATOM	11013	CA	ALA	C1025	52.903	63.827	26.074	1.00	54.60	C
ATOM	11014	CB	ALA	C1025	53.623	62.458	26.112	1.00	13.33	C
ATOM	11015	C	ALA	C1025	52.851	64.425	27.485	1.00	54.60	C
ATOM	11016	O	ALA	C1025	51.858	65.020	27.892	1.00	54.60	C
ATOM	11017	N	GLN	C1026	53.942	64.263	28.223	1.00	68.80	C
ATOM	11018	CA	GLN	C1026	54.028	64.768	29.589	1.00	68.80	C
ATOM	11019	CB	GLN	C1026	55.327	64.297	30.255	1.00	100.07	C
ATOM	11020	CG	GLN	C1026	55.659	62.815	30.046	1.00	100.07	C
ATOM	11021	CD	GLN	C1026	56.471	62.555	28.782	1.00	100.07	C
ATOM	11022	OE1	GLN	C1026	56.049	62.885	27.673	1.00	100.07	C
ATOM	11023	NE2	GLN	C1026	57.645	61.955	28.949	1.00	100.07	C
ATOM	11024	C	GLN	C1026	53.971	66.283	29.625	1.00	68.80	C
ATOM	11025	O	GLN	C1026	53.210	66.857	30.397	1.00	68.80	C
ATOM	11026	N	PHE	C1027	54.793	66.918	28.795	1.00	58.78	C
ATOM	11027	CA	PHE	C1027	54.853	68.372	28.711	1.00	58.78	C
ATOM	11028	CB	PHE	C1027	53.586	68.887	28.011	1.00	99.80	C
ATOM	11029	CG	PHE	C1027	53.797	70.128	27.168	1.00	99.80	C
ATOM	11030	CD1	PHE	C1027	52.740	70.662	26.426	1.00	99.80	C
ATOM	11031	CD2	PHE	C1027	55.038	70.761	27.107	1.00	99.80	C
ATOM	11032	CE1	PHE	C1027	52.914	71.809	25.640	1.00	99.80	C
ATOM	11033	CE2	PHE	C1027	55.224	71.910	26.323	1.00	99.80	C
ATOM	11034	CZ	PHE	C1027	54.160	72.432	25.586	1.00	99.80	C
ATOM	11035	C	PHE	C1027	54.994	68.985	30.109	1.00	58.78	C
ATOM	11036	O	PHE	C1027	54.869	68.291	31.123	1.00	58.78	C
ATOM	11037	N	GLY	C1028	55.267	70.283	30.162	1.00	82.86	C
ATOM	11038	CA	GLY	C1028	55.409	70.946	31.444	1.00	82.86	C
ATOM	11039	C	GLY	C1028	56.683	71.753	31.521	1.00	82.86	C
ATOM	11040	O	GLY	C1028	56.936	72.593	30.656	1.00	82.86	C
ATOM	11041	N	GLY	C1029	57.479	71.502	32.558	1.00	98.74	C
ATOM	11042	CA	GLY	C1029	58.742	72.204	32.728	1.00	98.74	C
ATOM	11043	C	GLY	C1029	58.689	73.359	33.711	1.00	98.74	C
ATOM	11044	O	GLY	C1029	58.813	74.520	33.318	1.00	98.74	C
ATOM	11045	N	GLN	C1030	58.530	73.045	34.993	1.00	59.66	C
ATOM	11046	CA	GLN	C1030	58.433	74.076	36.015	1.00	59.66	C
ATOM	11047	CB	GLN	C1030	58.390	73.457	37.395	1.00	22.64	C
ATOM	11048	CG	GLN	C1030	57.748	74.394	38.355	1.00	22.64	C
ATOM	11049	CD	GLN	C1030	56.727	75.281	37.672	1.00	22.64	C
ATOM	11050	OE1	GLN	C1030	57.082	76.304	37.080	1.00	22.64	C



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ATOM	11051	NE2	GLN	C1030	55.454	74.882	37.734	1.00	22.64	C
ATOM	11052	C	GLN	C1030	59.541	75.103	35.971	1.00	59.66	C
ATOM	11053	O	GLN	C1030	60.505	74.931	35.235	1.00	59.66	C
ATOM	11054	N	ARG	C1031	59.412	76.160	36.773	1.00	36.92	C
ATOM	11055	CA	ARG	C1031	60.405	77.244	36.795	1.00	36.92	C
ATOM	11056	CB	ARG	C1031	59.719	78.542	36.350	1.00	100.07	C
ATOM	11057	CG	ARG	C1031	58.717	78.297	35.206	1.00	100.07	C
ATOM	11058	CD	ARG	C1031	58.187	79.562	34.518	1.00	100.07	C
ATOM	11059	NE	ARG	C1031	57.157	79.222	33.531	1.00	100.07	C
ATOM	11060	CZ	ARG	C1031	56.562	80.093	32.717	1.00	100.07	C
ATOM	11061	NH1	ARG	C1031	56.890	81.379	32.757	1.00	100.07	C
ATOM	11062	NH2	ARG	C1031	55.627	79.675	31.867	1.00	100.07	C
ATOM	11063	C	ARG	C1031	61.049	77.403	38.172	1.00	36.92	C
ATOM	11064	O	ARG	C1031	60.770	76.611	39.063	1.00	36.92	C
ATOM	11065	N	PHE	C1032	61.916	78.397	38.364	1.00	43.17	C
ATOM	11066	CA	PHE	C1032	62.534	78.567	39.692	1.00	43.17	C
ATOM	11067	CB	PHE	C1032	63.490	77.405	39.956	1.00	6.13	C
ATOM	11068	CG	PHE	C1032	63.661	77.066	41.415	1.00	6.13	C
ATOM	11069	CD1	PHE	C1032	62.556	76.836	42.225	1.00	6.13	C
ATOM	11070	CD2	PHE	C1032	64.939	76.906	41.967	1.00	6.13	C
ATOM	11071	CE1	PHE	C1032	62.724	76.444	43.576	1.00	6.13	C
ATOM	11072	CE2	PHE	C1032	65.115	76.516	43.301	1.00	6.13	C
ATOM	11073	CZ	PHE	C1032	64.006	76.285	44.107	1.00	6.13	C
ATOM	11074	C	PHE	C1032	63.271	79.900	39.902	1.00	43.17	C
ATOM	11075	O	PHE	C1032	64.346	79.938	40.514	1.00	43.17	C
ATOM	11076	N	GLY	C1033	62.664	80.983	39.410	1.00	98.19	C
ATOM	11077	CA	GLY	C1033	63.230	82.325	39.499	1.00	98.19	C
ATOM	11078	C	GLY	C1033	63.908	82.779	40.781	1.00	98.19	C
ATOM	11079	O	GLY	C1033	63.256	83.316	41.677	1.00	98.19	C
ATOM	11080	N	GLU	C1034	65.226	82.581	40.833	1.00	31.25	C
ATOM	11081	CA	GLU	C1034	66.091	82.939	41.952	1.00	31.25	C
ATOM	11082	CB	GLU	C1034	66.957	84.142	41.581	1.00	25.78	C
ATOM	11083	CG	GLU	C1034	66.193	85.436	41.478	1.00	25.78	C
ATOM	11084	CD	GLU	C1034	67.053	86.606	41.039	1.00	25.78	C
ATOM	11085	OE1	GLU	C1034	68.183	86.747	41.562	1.00	25.78	C
ATOM	11086	OE2	GLU	C1034	66.584	87.392	40.179	1.00	25.78	C
ATOM	11087	C	GLU	C1034	65.403	83.194	43.285	1.00	31.25	C
ATOM	11088	O	GLU	C1034	65.659	82.465	44.238	1.00	31.25	C
ATOM	11089	N	MET	C1035	64.550	84.217	43.370	1.00	33.31	C
ATOM	11090	CA	MET	C1035	63.844	84.540	44.619	1.00	33.31	C
ATOM	11091	CB	MET	C1035	62.454	85.087	44.318	1.00	55.27	C
ATOM	11092	CG	MET	C1035	62.458	86.351	43.500	1.00	55.27	C
ATOM	11093	SD	MET	C1035	62.842	87.802	44.457	1.00	55.27	C
ATOM	11094	CE	MET	C1035	62.370	89.055	43.311	1.00	55.27	C
ATOM	11095	C	MET	C1035	63.703	83.309	45.506	1.00	33.31	C
ATOM	11096	O	MET	C1035	64.017	83.345	46.695	1.00	33.31	C
ATOM	11097	N	GLU	C1036	63.225	82.221	44.909	1.00	25.45	C
ATOM	11098	CA	GLU	C1036	63.048	80.962	45.613	1.00	25.45	C
ATOM	11099	CB	GLU	C1036	62.514	79.902	44.651	1.00	47.40	C
ATOM	11100	CG	GLU	C1036	61.136	80.247	44.085	1.00	47.40	C
ATOM	11101	CD	GLU	C1036	61.124	81.520	43.246	1.00	47.40	C
ATOM	11102	OE1	GLU	C1036	61.633	81.489	42.108	1.00	47.40	C
ATOM	11103	OE2	GLU	C1036	60.610	82.552	43.724	1.00	47.40	C
ATOM	11104	C	GLU	C1036	64.373	80.517	46.221	1.00	25.45	C
ATOM	11105	O	GLU	C1036	64.438	80.208	47.417	1.00	25.45	C
ATOM	11106	N	VAL	C1037	65.426	80.500	45.404	1.00	52.60	C
ATOM	11107	CA	VAL	C1037	66.753	80.108	45.868	1.00	52.60	C
ATOM	11108	CB	VAL	C1037	67.870	80.648	44.992	1.00	23.51	C
ATOM	11109	CG1	VAL	C1037	69.148	79.957	45.358	1.00	23.51	C
ATOM	11110	CG2	VAL	C1037	67.551	80.446	43.540	1.00	23.51	C
ATOM	11111	C	VAL	C1037	67.017	80.656	47.254	1.00	52.60	C
ATOM	11112	O	VAL	C1037	67.216	79.890	48.194	1.00	52.60	C
ATOM	11113	N	TRP	C1038	67.047	81.982	47.380	1.00	23.44	C
ATOM	11114	CA	TRP	C1038	67.271	82.574	48.690	1.00	23.44	C
ATOM	11115	CB	TRP	C1038	66.816	84.048	48.752	1.00	30.22	C
ATOM	11116	CG	TRP	C1038	67.603	85.011	47.894	1.00	30.22	C
ATOM	11117	CD2	TRP	C1038	67.071	86.005	47.018	1.00	30.22	C
ATOM	11118	CE2	TRP	C1038	68.161	86.617	46.366	1.00	30.22	C
ATOM	11119	CE3	TRP	C1038	65.775	86.438	46.721	1.00	30.22	C
ATOM	11120	CD1	TRP	C1038	68.949	85.066	47.752	1.00	30.22	C
ATOM	11121	NE1	TRP	C1038	69.298	86.023	46.831	1.00	30.22	C
ATOM	11122	CZ2	TRP	C1038	68.003	87.628	45.429	1.00	30.22	C
ATOM	11123	CZ3	TRP	C1038	65.616	87.446	45.786	1.00	30.22	C
ATOM	11124	CH2	TRP	C1038	66.729	88.034	45.149	1.00	30.22	C
ATOM	11125	C	TRP	C1038	66.437	81.747	49.667	1.00	23.44	C
ATOM	11126	O	TRP	C1038	66.991	81.090	50.536	1.00	23.44	C
ATOM	11127	N	ALA	C1039	65.113	81.752	49.492	1.00	5.13	C
ATOM	11128	CA	ALA	C1039	64.202	81.009	50.368	1.00	5.13	C
ATOM	11129	CB	ALA	C1039	62.931	80.675	49.639	1.00	21.81	C
ATOM	11130	C	ALA	C1039	64.847	79.732	50.859	1.00	5.13	C
ATOM	11131	O	ALA	C1039	65.059	79.539	52.061	1.00	5.13	C
ATOM	11132	N	LEU	C1040	65.159	78.847	49.926	1.00	22.00	C
ATOM	11133	CA	LEU	C1040	65.783	77.610	50.327	1.00	22.00	C
ATOM	11134	CB	LEU	C1040	66.231	76.818	49.098	1.00	39.12	C



ATOM	11135	CG	LEU	C1040	65.075	76.292	48.237	1.00	39.12	C
ATOM	11136	CD1	LEU	C1040	63.977	75.746	49.146	1.00	39.12	C
ATOM	11137	CD2	LEU	C1040	64.511	77.399	47.377	1.00	39.12	C
ATOM	11138	C	LEU	C1040	66.952	77.945	51.246	1.00	22.00	C
ATOM	11139	O	LEU	C1040	67.016	77.444	52.366	1.00	22.00	C
ATOM	11140	N	GLU	C1041	67.853	78.812	50.789	1.00	24.23	C
ATOM	11141	CA	GLU	C1041	69.008	79.223	51.593	1.00	24.23	C
ATOM	11142	CB	GLU	C1041	69.848	80.280	50.854	1.00	17.57	C
ATOM	11143	CG	GLU	C1041	70.602	79.823	49.595	1.00	17.57	C
ATOM	11144	CD	GLU	C1041	71.273	80.994	48.855	1.00	17.57	C
ATOM	11145	OE1	GLU	C1041	70.549	81.939	48.505	1.00	17.57	C
ATOM	11146	OE2	GLU	C1041	72.500	80.988	48.618	1.00	17.57	C
ATOM	11147	C	GLU	C1041	68.533	79.830	52.917	1.00	24.23	C
ATOM	11148	O	GLU	C1041	68.859	79.317	53.990	1.00	24.23	C
ATOM	11149	N	ALA	C1042	67.768	80.927	52.816	1.00	11.12	C
ATOM	11150	CA	ALA	C1042	67.237	81.669	53.967	1.00	11.12	C
ATOM	11151	CB	ALA	C1042	65.966	82.425	53.590	1.00	58.04	C
ATOM	11152	C	ALA	C1042	66.962	80.687	55.062	1.00	11.12	C
ATOM	11153	O	ALA	C1042	67.303	80.928	56.203	1.00	11.12	C
ATOM	11154	N	TYR	C1043	66.341	79.569	54.722	1.00	37.76	C
ATOM	11155	CA	TYR	C1043	66.110	78.552	55.734	1.00	37.76	C
ATOM	11156	CB	TYR	C1043	65.239	77.400	55.214	1.00	32.84	C
ATOM	11157	CG	TYR	C1043	63.763	77.658	55.144	1.00	32.84	C
ATOM	11158	CD1	TYR	C1043	63.196	78.229	54.024	1.00	32.84	C
ATOM	11159	CE1	TYR	C1043	61.838	78.423	53.948	1.00	32.84	C
ATOM	11160	CD2	TYR	C1043	62.927	77.292	56.193	1.00	32.84	C
ATOM	11161	CE2	TYR	C1043	61.572	77.484	56.125	1.00	32.84	C
ATOM	11162	CZ	TYR	C1043	61.033	78.046	54.999	1.00	32.84	C
ATOM	11163	OH	TYR	C1043	59.678	78.214	54.896	1.00	32.84	C
ATOM	11164	C	TYR	C1043	67.486	77.970	55.979	1.00	37.76	C
ATOM	11165	O	TYR	C1043	68.415	78.611	56.468	1.00	37.76	C
ATOM	11166	N	GLY	C1044	67.577	76.724	55.572	1.00	30.65	C
ATOM	11167	CA	GLY	C1044	68.772	75.941	55.667	1.00	30.65	C
ATOM	11168	C	GLY	C1044	68.100	74.715	55.125	1.00	30.65	C
ATOM	11169	O	GLY	C1044	67.077	74.293	55.663	1.00	30.65	C
ATOM	11170	N	ALA	C1045	68.616	74.174	54.039	1.00	28.37	C
ATOM	11171	CA	ALA	C1045	68.007	72.999	53.475	1.00	28.37	C
ATOM	11172	CB	ALA	C1045	66.599	73.309	53.066	1.00	5.07	C
ATOM	11173	C	ALA	C1045	68.818	72.594	52.278	1.00	28.37	C
ATOM	11174	O	ALA	C1045	68.378	71.779	51.470	1.00	28.37	C
ATOM	11175	N	ALA	C1046	70.008	73.175	52.175	1.00	24.84	C
ATOM	11176	CA	ALA	C1046	70.913	72.916	51.066	1.00	24.84	C
ATOM	11177	CB	ALA	C1046	72.342	72.826	51.574	1.00	42.88	C
ATOM	11178	C	ALA	C1046	70.532	71.651	50.307	1.00	24.84	C
ATOM	11179	O	ALA	C1046	70.229	71.710	49.108	1.00	24.84	C
ATOM	11180	N	HIS	C1047	70.511	70.516	51.006	1.00	19.24	C
ATOM	11181	CA	HIS	C1047	70.163	69.264	50.343	1.00	19.24	C
ATOM	11182	CB	HIS	C1047	70.054	68.134	51.365	1.00	99.82	C
ATOM	11183	CG	HIS	C1047	71.384	67.597	51.793	1.00	99.82	C
ATOM	11184	CD2	HIS	C1047	72.044	67.677	52.973	1.00	99.82	C
ATOM	11185	ND1	HIS	C1047	72.224	66.923	50.933	1.00	99.82	C
ATOM	11186	CE1	HIS	C1047	73.341	66.612	51.564	1.00	99.82	C
ATOM	11187	NE2	HIS	C1047	73.258	67.057	52.804	1.00	99.82	C
ATOM	11188	C	HIS	C1047	68.897	69.378	49.507	1.00	19.24	C
ATOM	11189	O	HIS	C1047	68.895	69.004	48.335	1.00	19.24	C
ATOM	11190	N	THR	C1048	67.832	69.908	50.100	1.00	34.66	C
ATOM	11191	CA	THR	C1048	66.573	70.091	49.387	1.00	34.66	C
ATOM	11192	CB	THR	C1048	65.543	70.846	50.219	1.00	41.37	C
ATOM	11193	OG1	THR	C1048	65.303	70.152	51.449	1.00	41.37	C
ATOM	11194	CG2	THR	C1048	64.251	70.969	49.437	1.00	41.37	C
ATOM	11195	C	THR	C1048	66.840	70.938	48.162	1.00	34.66	C
ATOM	11196	O	THR	C1048	66.300	70.676	47.087	1.00	34.66	C
ATOM	11197	N	LEU	C1049	67.667	71.967	48.345	1.00	27.07	C
ATOM	11198	CA	LEU	C1049	68.023	72.868	47.257	1.00	27.07	C
ATOM	11199	CB	LEU	C1049	68.731	74.114	47.780	1.00	22.64	C
ATOM	11200	CG	LEU	C1049	69.247	74.954	46.612	1.00	22.64	C
ATOM	11201	CD1	LEU	C1049	68.099	75.267	45.712	1.00	22.64	C
ATOM	11202	CD2	LEU	C1049	69.876	76.229	47.092	1.00	22.64	C
ATOM	11203	C	LEU	C1049	68.932	72.182	46.253	1.00	27.07	C
ATOM	11204	O	LEU	C1049	68.747	72.327	45.050	1.00	27.07	C
ATOM	11205	N	GLN	C1050	69.923	71.451	46.761	1.00	66.41	C
ATOM	11206	CA	GLN	C1050	70.876	70.723	45.922	1.00	66.41	C
ATOM	11207	CB	GLN	C1050	71.708	69.755	46.799	1.00	41.38	C
ATOM	11208	CG	GLN	C1050	72.482	68.615	46.064	1.00	41.38	C
ATOM	11209	CD	GLN	C1050	73.972	68.892	45.839	1.00	41.38	C
ATOM	11210	OE1	GLN	C1050	74.836	68.180	46.370	1.00	41.38	C
ATOM	11211	NE2	GLN	C1050	74.275	69.919	45.040	1.00	41.38	C
ATOM	11212	C	GLN	C1050	70.112	69.955	44.842	1.00	66.41	C
ATOM	11213	O	GLN	C1050	70.372	70.096	43.647	1.00	66.41	C
ATOM	11214	N	GLU	C1051	69.149	69.155	45.277	1.00	40.71	C
ATOM	11215	CA	GLU	C1051	68.348	68.356	44.369	1.00	40.71	C
ATOM	11216	CB	GLU	C1051	67.360	67.539	45.202	1.00	62.66	C
ATOM	11217	CG	GLU	C1051	66.053	67.266	44.533	1.00	62.66	C
ATOM	11218	CD	GLU	C1051	64.899	67.678	45.406	1.00	62.66	C



ATOM	11219	OE1	GLU	C1051	64.906	68.845	45.863	1.00	62.66	C
ATOM	11220	OE2	GLU	C1051	63.993	66.845	45.634	1.00	62.66	C
ATOM	11221	C	GLU	C1051	67.629	69.208	43.311	1.00	40.71	C
ATOM	11222	O	GLU	C1051	67.284	68.722	42.232	1.00	40.71	C
ATOM	11223	N	MET	C1052	67.430	70.485	43.619	1.00	32.41	C
ATOM	11224	CA	MET	C1052	66.747	71.398	42.709	1.00	32.41	C
ATOM	11225	CB	MET	C1052	66.161	72.579	43.502	1.00	42.69	C
ATOM	11226	CG	MET	C1052	64.869	73.182	42.934	1.00	42.69	C
ATOM	11227	SD	MET	C1052	63.531	73.306	44.174	1.00	42.69	C
ATOM	11228	CE	MET	C1052	62.247	72.140	43.492	1.00	42.69	C
ATOM	11229	C	MET	C1052	67.708	71.891	41.635	1.00	32.41	C
ATOM	11230	O	MET	C1052	67.325	72.637	40.750	1.00	32.41	C
ATOM	11231	N	LEU	C1053	68.962	71.470	41.719	1.00	43.50	C
ATOM	11232	CA	LEU	C1053	69.964	71.856	40.725	1.00	43.50	C
ATOM	11233	CB	LEU	C1053	70.862	72.978	41.248	1.00	50.10	C
ATOM	11234	CG	LEU	C1053	70.235	74.357	41.380	1.00	50.10	C
ATOM	11235	CD1	LEU	C1053	69.204	74.517	40.270	1.00	50.10	C
ATOM	11236	CD2	LEU	C1053	69.596	74.515	42.737	1.00	50.10	C
ATOM	11237	C	LEU	C1053	70.850	70.680	40.330	1.00	43.50	C
ATOM	11238	O	LEU	C1053	71.884	70.863	39.688	1.00	43.50	C
ATOM	11239	N	THR	C1054	70.436	69.477	40.709	1.00	33.33	C
ATOM	11240	CA	THR	C1054	71.205	68.284	40.414	1.00	33.33	C
ATOM	11241	CB	THR	C1054	71.851	67.779	41.679	1.00	40.94	C
ATOM	11242	OG1	THR	C1054	72.488	68.884	42.327	1.00	40.94	C
ATOM	11243	CG2	THR	C1054	72.881	66.704	41.372	1.00	40.94	C
ATOM	11244	C	THR	C1054	70.324	67.197	39.849	1.00	33.33	C
ATOM	11245	O	THR	C1054	70.114	67.115	38.649	1.00	33.33	C
ATOM	11246	N	ILE	C1055	69.803	66.364	40.733	1.00	24.89	C
ATOM	11247	CA	ILE	C1055	68.939	65.278	40.331	1.00	24.89	C
ATOM	11248	CB	ILE	C1055	68.460	64.454	41.540	1.00	67.79	C
ATOM	11249	CG2	ILE	C1055	68.880	63.009	41.383	1.00	67.79	C
ATOM	11250	CG1	ILE	C1055	68.998	65.054	42.839	1.00	67.79	C
ATOM	11251	CD	ILE	C1055	70.508	64.940	43.008	1.00	67.79	C
ATOM	11252	C	ILE	C1055	67.691	65.788	39.641	1.00	24.89	C
ATOM	11253	O	ILE	C1055	66.758	65.015	39.452	1.00	24.89	C
ATOM	11254	N	LYS	C1056	67.644	67.062	39.250	1.00	42.15	C
ATOM	11255	CA	LYS	C1056	66.423	67.568	38.619	1.00	42.15	C
ATOM	11256	CB	LYS	C1056	65.529	68.248	39.689	1.00	23.57	C
ATOM	11257	CG	LYS	C1056	64.829	67.265	40.664	1.00	23.57	C
ATOM	11258	CD	LYS	C1056	63.533	67.836	41.280	1.00	23.57	C
ATOM	11259	CE	LYS	C1056	63.761	68.665	42.566	1.00	23.57	C
ATOM	11260	NZ	LYS	C1056	62.494	69.220	4			



ATOM	11303	CA	GLY	C1062	70.754	62.561	38.763	1.00	36.80	
ATOM	11304	C	GLY	C1062	69.472	62.002	38.197	1.00	36.80	
ATOM	11305	O	GLY	C1062	68.936	61.012	38.702	1.00	36.80	
ATOM	11306	N	ARG	C1063	68.984	62.648	37.144	1.00	48.95	
ATOM	11307	CA	ARG	C1063	67.767	62.220	36.493	1.00	48.95	
ATOM	11308	CB	ARG	C1063	67.757	62.708	35.044	1.00	50.82	
ATOM	11309	CG	ARG	C1063	67.856	64.227	34.917	1.00	50.82	
ATOM	11310	CD	ARG	C1063	68.058	64.695	33.474	1.00	50.82	
ATOM	11311	NE	ARG	C1063	66.829	64.764	32.693	1.00	50.82	
ATOM	11312	CZ	ARG	C1063	66.756	65.344	31.502	1.00	50.82	
ATOM	11313	NH1	ARG	C1063	67.839	65.890	30.971	1.00	50.82	
ATOM	11314	NH2	ARG	C1063	65.601	65.402	30.854	1.00	50.82	
ATOM	11315	C	ARG	C1063	67.718	60.703	36.547	1.00	48.95	
ATOM	11316	O	ARG	C1063	66.868	60.137	37.229	1.00	48.95	
ATOM	11317	N	ASN	C1064	68.652	60.052	35.859	1.00	32.70	
ATOM	11318	CA	ASN	C1064	68.714	58.593	35.834	1.00	32.70	
ATOM	11319	CB	ASN	C1064	70.009	58.144	35.169	1.00100.07		
ATOM	11320	CG	ASN	C1064	70.322	58.948	33.930	1.00100.07		
ATOM	11321	OD1	ASN	C1064	69.509	59.034	33.009	1.00100.07		
ATOM	11322	ND2	ASN	C1064	71.502	59.552	33.902	1.00100.07		
ATOM	11323	C	ASN	C1064	68.622	57.999	37.238	1.00	32.70	
ATOM	11324	O	ASN	C1064	67.607	57.404	37.604	1.00	32.70	
ATOM	11325	N	ALA	C1065	69.680	58.161	38.023	1.00	73.60	
ATOM	11326	CA	ALA	C1065	69.694	57.638	39.386	1.00	73.60	
ATOM	11327	CB	ALA	C1065	70.828	58.264	40.167	1.00100.07		
ATOM	11328	C	ALA	C1065	68.373	57.966	40.054	1.00	73.60	
ATOM	11329	O	ALA	C1065	67.784	57.143	40.756	1.00	73.60	
ATOM	11330	N	ALA	C1066	67.922	59.189	39.818	1.00	80.92	
ATOM	11331	CA	ALA	C1066	66.676	59.681	40.367	1.00	80.92	
ATOM	11332	CB	ALA	C1066	66.451	61.119	39.906	1.00	19.44	
ATOM	11333	C	ALA	C1066	65.507	58.804	39.931	1.00	80.92	
ATOM	11334	O	ALA	C1066	64.862	58.156	40.758	1.00	80.92	
ATOM	11335	N	TYR	C1067	65.257	58.778	38.623	1.00	45.00	
ATOM	11336	CA	TYR	C1067	64.152	58.020	38.061	1.00	45.00	
ATOM	11337	CB	TYR	C1067	63.924	58.384	36.601	1.00	63.03	
ATOM	11338	CG	TYR	C1067	62.583	57.898	36.108	1.00	63.03	
ATOM	11339	CD1	TYR	C1067	61.411	58.551	36.473	1.00	63.03	
ATOM	11340	CE1	TYR	C1067	60.159	58.084	36.060	1.00	63.03	
ATOM	11341	CD2	TYR	C1067	62.475	56.762	35.315	1.00	63.03	
ATOM	11342	CE2	TYR	C1067	61.223	56.284	34.897	1.00	63.03	
ATOM	11343	CZ	TYR	C1067	60.071	56.951	35.273	1.00	63.03	
ATOM	11344	OH	TYR	C1067	58.831	56.495	34.873	1.00	63.03	
ATOM	1134									



ATOM	11387	CA	GLY	C1073	62.156	51.019	46.578	1.00	74.04	C
ATOM	11388	C	GLY	C1073	63.291	51.838	47.156	1.00	74.04	C
ATOM	11389	O	GLY	C1073	63.435	51.942	48.372	1.00	74.04	C
ATOM	11390	N	GLU	C1074	64.090	52.426	46.268	1.00	65.07	C
ATOM	11391	CA	GLU	C1074	65.248	53.227	46.648	1.00	65.07	C
ATOM	11392	CB	GLU	C1074	66.412	52.896	45.717	1.00	98.80	C
ATOM	11393	CG	GLU	C1074	67.060	51.557	46.022	1.00	98.80	C
ATOM	11394	CD	GLU	C1074	67.422	50.775	44.777	1.00	98.80	C
ATOM	11395	OE1	GLU	C1074	67.954	51.379	43.820	1.00	98.80	C
ATOM	11396	OE2	GLU	C1074	67.185	49.548	44.759	1.00	98.80	C
ATOM	11397	C	GLU	C1074	65.006	54.732	46.668	1.00	65.07	C
ATOM	11398	O	GLU	C1074	64.226	55.263	45.876	1.00	65.07	C
ATOM	11399	N	ASP	C1075	65.696	55.412	47.580	1.00	31.63	C
ATOM	11400	CA	ASP	C1075	65.563	56.852	47.742	1.00	31.63	C
ATOM	11401	CB	ASP	C1075	65.923	57.250	49.166	1.00	51.36	C
ATOM	11402	CG	ASP	C1075	67.418	57.370	49.364	1.00	51.36	C
ATOM	11403	OD1	ASP	C1075	68.129	56.376	49.097	1.00	51.36	C
ATOM	11404	OD2	ASP	C1075	67.881	58.457	49.774	1.00	51.36	C
ATOM	11405	C	ASP	C1075	66.470	57.615	46.795	1.00	31.63	C
ATOM	11406	O	ASP	C1075	67.678	57.376	46.757	1.00	31.63	C
ATOM	11407	N	VAL	C1076	65.892	58.541	46.038	1.00	77.61	C
ATOM	11408	CA	VAL	C1076	66.679	59.344	45.109	1.00	77.61	C
ATOM	11409	CB	VAL	C1076	65.902	60.608	44.661	1.00	49.98	C
ATOM	11410	CG1	VAL	C1076	66.847	61.627	44.022	1.00	49.98	C
ATOM	11411	CG2	VAL	C1076	64.825	60.210	43.669	1.00	49.98	C
ATOM	11412	C	VAL	C1076	67.985	59.749	45.787	1.00	77.61	C
ATOM	11413	O	VAL	C1076	67.982	60.289	46.891	1.00	77.61	C
ATOM	11414	N	PRO	C1077	69.121	59.455	45.143	1.00	98.85	C
ATOM	11415	CD	PRO	C1077	69.220	58.474	44.048	1.00	88.18	C
ATOM	11416	CA	PRO	C1077	70.452	59.773	45.657	1.00	98.85	C
ATOM	11417	CB	PRO	C1077	71.275	58.605	45.154	1.00	88.18	C
ATOM	11418	CG	PRO	C1077	70.708	58.421	43.789	1.00	88.18	C
ATOM	11419	C	PRO	C1077	71.014	61.115	45.177	1.00	98.85	C
ATOM	11420	O	PRO	C1077	70.274	61.991	44.729	1.00	98.85	C
ATOM	11421	N	GLU	C1078	72.335	61.251	45.290	1.00	98.90	C
ATOM	11422	CA	GLU	C1078	73.071	62.445	44.875	1.00	98.90	C
ATOM	11423	CB	GLU	C1078	72.635	63.674	45.672	1.00	89.32	C
ATOM	11424	CG	GLU	C1078	73.706	64.767	45.709	1.00	89.32	C
ATOM	11425	CD	GLU	C1078	74.156	65.233	44.328	1.00	89.32	C
ATOM	11426	OE1	GLU	C1078	74.071	64.462	43.353	1.00	89.32	C
ATOM	11427	OE2	GLU	C1078	74.618	66.385	44.226	1.00	89.32	C
ATOM	11428	C	GLU	C1078	74.579	62.272	45.039	1.00	98.90	C
ATOM	11429	O	GLU	C1078	75.075	62.039	46.141	1.00	98.90	C
ATOM	11430	N	PRO	C1079	75.323	62.372	43.933	1.00	52.54	C
ATOM	11431	CD	PRO	C1079	74.759	62.060	42.601	1.00	100.07	C
ATOM	11432	CA	PRO	C1079	76.787	62.234	43.916	1.00	52.54	C
ATOM	11433	CB	PRO	C1079	77.010	61.283	42.756	1.00	100.07	C
ATOM	11434	CG	PRO	C1079	76.003	61.818	41.745	1.00	100.07	C
ATOM	11435	C	PRO	C1079	77.448	63.575	43.646	1.00	52.54	C
ATOM	11436	O	PRO	C1079	77.019	64.596	44.170	1.00	52.54	C
ATOM	11437	N	SER	C1080	78.489	63.565	42.818	1.00	66.25	C
ATOM	11438	CA	SER	C1080	79.153	64.807	42.451	1.00	66.25	C
ATOM	11439	CB	SER	C1080	80.380	64.553	41.584	1.00	80.40	C
ATOM	11440	OG	SER	C1080	80.894	65.782	41.093	1.00	80.40	C
ATOM	11441	C	SER	C1080	78.135	65.602	41.646	1.00	66.25	C
ATOM	11442	O	SER	C1080	76.945	65.277	41.658	1.00	66.25	C
ATOM	11443	N	VAL	C1081	78.586	66.625	40.927	1.00	23.51	C
ATOM	11444	CA	VAL	C1081	77.640	67.439	40.172	1.00	23.51	C
ATOM	11445	CB	VAL	C1081	77.078	68.589	41.033	1.00	100.04	C
ATOM	11446	CG1	VAL	C1081	75.938	69.253	40.301	1.00	100.04	C
ATOM	11447	CG2	VAL	C1081	76.613	68.070	42.390	1.00	100.04	C
ATOM	11448	C	VAL	C1081	78.157	68.049	38.882	1.00	23.51	C
ATOM	11449	O	VAL	C1081	79.067	68.883	38.874	1.00	23.51	C
ATOM	11450	N	PRO	C1082	77.525	67.673	37.772	1.00	57.24	C
ATOM	11451	CD	PRO	C1082	76.147	67.165	37.764	1.00	99.94	C
ATOM	11452	CA	PRO	C1082	77.885	68.154	36.443	1.00	57.24	C
ATOM	11453	CB	PRO	C1082	76.704	67.706	35.593	1.00	99.94	C
ATOM	11454	CG	PRO	C1082	75.575	67.835	36.547	1.00	99.94	C
ATOM	11455	C	PRO	C1082	78.026	69.657	36.472	1.00	57.24	C
ATOM	11456	O	PRO	C1082	78.852	70.224	35.760	1.00	57.24	C
ATOM	11457	N	GLU	C1083	77.205	70.298	37.300	1.00	42.40	C
ATOM	11458	CA	GLU	C1083	77.250	71.743	37.410	1.00	42.40	C
ATOM	11459	CB	GLU	C1083	76.488	72.207	38.642	1.00	100.07	C
ATOM	11460	CG	GLU	C1083	75.037	71.797	38.607	1.00	100.07	C
ATOM	11461	CD	GLU	C1083	74.296	72.411	37.447	1.00	100.07	C
ATOM	11462	OE1	GLU	C1083	74.960	72.882	36.500	1.00	100.07	C
ATOM	11463	OE2	GLU	C1083	73.047	72.414	37.480	1.00	100.07	C
ATOM	11464	C	GLU	C1083	78.705	72.104	37.520	1.00	42.40	C
ATOM	11465	O	GLU	C1083	79.150	73.070	36.909	1.00	42.40	C
ATOM	11466	N	SER	C1084	79.445	71.302	38.283	1.00	53.04	C
ATOM	11467	CA	SER	C1084	80.867	71.540	38.437	1.00	53.04	C
ATOM	11468	CB	SER	C1084	81.370	71.138	39.825	1.00	58.80	C
ATOM	11469	OG	SER	C1084	82.649	71.714	40.076	1.00	58.80	C
ATOM	11470	C	SER	C1084	81.609	70.753	37.374	1.00	53.04	C



ATOM	11471	O	SER	C1084	82.407	71.330	36.635	1.00	53.04	C
ATOM	11472	N	PHE	C1085	81.341	69.445	37.291	1.00	51.88	C
ATOM	11473	CA	PHE	C1085	81.991	68.597	36.294	1.00	51.88	C
ATOM	11474	CB	PHE	C1085	81.083	67.419	35.890	1.00	84.41	C
ATOM	11475	CG	PHE	C1085	81.210	66.179	36.767	1.00	84.41	C
ATOM	11476	CD1	PHE	C1085	81.989	66.173	37.921	1.00	84.41	C
ATOM	11477	CD2	PHE	C1085	80.531	65.003	36.425	1.00	84.41	C
ATOM	11478	CE1	PHE	C1085	82.093	65.017	38.715	1.00	84.41	C
ATOM	11479	CE2	PHE	C1085	80.631	63.845	37.216	1.00	84.41	C
ATOM	11480	CZ	PHE	C1085	81.411	63.857	38.358	1.00	84.41	C
ATOM	11481	C	PHE	C1085	82.243	69.480	35.071	1.00	51.88	C
ATOM	11482	O	PHE	C1085	83.388	69.670	34.662	1.00	51.88	C
ATOM	11483	N	ARG	C1086	81.167	70.055	34.527	1.00	54.45	C
ATOM	11484	CA	ARG	C1086	81.229	70.916	33.343	1.00	54.45	C
ATOM	11485	CB	ARG	C1086	79.822	71.280	32.861	1.00	76.54	C
ATOM	11486	CG	ARG	C1086	79.819	72.179	31.612	1.00	76.54	C
ATOM	11487	CD	ARG	C1086	78.552	73.040	31.477	1.00	76.54	C
ATOM	11488	NE	ARG	C1086	78.614	74.262	32.287	1.00	76.54	C
ATOM	11489	CZ	ARG	C1086	77.643	75.174	32.371	1.00	76.54	C
ATOM	11490	NH1	ARG	C1086	76.514	75.015	31.691	1.00	76.54	C
ATOM	11491	NH2	ARG	C1086	77.803	76.249	33.138	1.00	76.54	C
ATOM	11492	C	ARG	C1086	82.013	72.215	33.466	1.00	54.45	C
ATOM	11493	O	ARG	C1086	82.718	72.583	32.534	1.00	54.45	C
ATOM	11494	N	VAL	C1087	81.887	72.921	34.586	1.00	65.75	C
ATOM	11495	CA	VAL	C1087	82.589	74.195	34.726	1.00	65.75	C
ATOM	11496	CB	VAL	C1087	82.750	74.651	36.196	1.00	36.34	C
ATOM	11497	CG1	VAL	C1087	82.631	76.185	36.291	1.00	36.34	C
ATOM	11498	CG2	VAL	C1087	81.737	73.994	37.054	1.00	36.34	C
ATOM	11499	C	VAL	C1087	83.978	74.120	34.125	1.00	65.75	C
ATOM	11500	O	VAL	C1087	84.156	74.353	32.933	1.00	65.75	C
ATOM	11501	N	LEU	C1088	84.956	73.797	34.960	1.00	74.07	C
ATOM	11502	CA	LEU	C1088	86.346	73.700	34.540	1.00	74.07	C
ATOM	11503	CB	LEU	C1088	87.051	72.638	35.350	1.00	38.61	C
ATOM	11504	CG	LEU	C1088	86.196	72.103	36.479	1.00	38.61	C
ATOM	11505	CD1	LEU	C1088	86.871	70.878	37.098	1.00	38.61	C
ATOM	11506	CD2	LEU	C1088	85.981	73.212	37.498	1.00	38.61	C
ATOM	11507	C	LEU	C1088	86.525	73.357	33.074	1.00	74.07	C
ATOM	11508	O	LEU	C1088	87.253	74.031	32.349	1.00	74.07	C
ATOM	11509	N	VAL	C1089	85.867	72.292	32.638	1.00	39.99	C
ATOM	11510	CA	VAL	C1089	86.002	71.870	31.263	1.00	39.99	C
ATOM	11511	CB	VAL	C1089	85.228	70.581	31.022	1.00	29.96	C
ATOM	11512	CG1	VAL	C1089	85.238	70.251	29.554	1.00	29.96	C
ATOM	11513	CG2	VAL	C1089	85.873	69.438	31.826	1.00	29.96	C
ATOM	11514	C	VAL	C1089	85.574	72.960	30.298	1.00	39.99	C
ATOM	11515	O	VAL	C1089	85.983	72.965	29.147	1.00	39.99	C
ATOM	11516	N	LYS	C1090	84.756	73.893	30.760	1.00	33.87	C
ATOM	11517	CA	LYS	C1090	84.347	74.999	29.903	1.00	33.87	C
ATOM	11518	CB	LYS	C1090	82.952	75.500	30.276	1.00	53.31	C
ATOM	11519	CG	LYS	C1090	81.852	74.457	30.144	1.00	53.31	C
ATOM	11520	CD	LYS	C1090	80.478	75.101	30.093	1.00	53.31	C
ATOM	11521	CE	LYS	C1090	80.221	75.777	28.755	1.00	53.31	C
ATOM	11522	NZ	LYS	C1090	81.179	76.865	28.435	1.00	53.31	C
ATOM	11523	C	LYS	C1090	85.374	76.102	30.135	1.00	33.87	C
ATOM	11524	O	LYS	C1090	85.407	77.100	29.417	1.00	33.87	C
ATOM	11525	N	GLU	C1091	86.208	75.885	31.154	1.00	65.89	C
ATOM	11526	CA	GLU	C1091	87.287	76.791	31.560	1.00	65.89	C
ATOM	11527	CB	GLU	C1091	87.625	76.570	33.031	1.00	57.58	C
ATOM	11528	CG	GLU	C1091	86.593	77.100	33.978	1.00	57.58	C
ATOM	11529	CD	GLU	C1091	86.758	78.578	34.201	1.00	57.58	C
ATOM	11530	OE1	GLU	C1091	87.135	79.279	33.234	1.00	57.58	C
ATOM	11531	OE2	GLU	C1091	86.507	79.036	35.336	1.00	57.58	C
ATOM	11532	C	GLU	C1091	88.542	76.532	30.738	1.00	65.89	C
ATOM	11533	O	GLU	C1091	88.989	77.387	29.976	1.00	65.89	C
ATOM	11534	N	LEU	C1092	89.122	75.349	30.926	1.00	55.18	C
ATOM	11535	CA	LEU	C1092	90.312	74.968	30.184	1.00	55.18	C
ATOM	11536	CB	LEU	C1092	90.609	73.475	30.353	1.00	23.92	C
ATOM	11537	CG	LEU	C1092	89.821	72.609	31.339	1.00	23.92	C
ATOM	11538	CD1	LEU	C1092	90.415	71.199	31.352	1.00	23.92	C
ATOM	11539	CD2	LEU	C1092	89.873	73.218	32.725	1.00	23.92	C
ATOM	11540	C	LEU	C1092	89.970	75.253	28.739	1.00	55.18	C
ATOM	11541	O	LEU	C1092	90.822	75.627	27.940	1.00	55.18	C
ATOM	11542	N	GLN	C1093	88.694	75.064	28.427	1.00	33.59	C
ATOM	11543	CA	GLN	C1093	88.158	75.310	27.103	1.00	33.59	C
ATOM	11544	CB	GLN	C1093	86.637	75.319	27.172	1.00	100.07	C
ATOM	11545	CG	GLN	C1093	85.955	76.005	26.010	1.00	100.07	C
ATOM	11546	CD	GLN	C1093	84.457	76.056	26.193	1.00	100.07	C
ATOM	11547	OE1	GLN	C1093	83.962	76.508	27.229	1.00	100.07	C
ATOM	11548	NE2	GLN	C1093	83.723	75.589	25.189	1.00	100.07	C
ATOM	11549	C	GLN	C1093	88.671	76.668	26.661	1.00	33.59	C
ATOM	11550	O	GLN	C1093	88.684	77.007	25.470	1.00	33.59	C
ATOM	11551	N	ALA	C1094	89.053	77.453	27.656	1.00	49.86	C
ATOM	11552	CA	ALA	C1094	89.628	78.762	27.443	1.00	49.86	C
ATOM	11553	CB	ALA	C1094	88.832	79.817	28.182	1.00	56.04	C
ATOM	11554	C	ALA	C1094	90.999	78.562	28.073	1.00	49.86	C



ATOM	11555	O	ALA	C1094	91.138	77.779	29.018	1.00	49.86	C
ATOM	11556	N	LEU	C1095	92.007	79.245	27.544	1.00	96.35	C
ATOM	11557	CA	LEU	C1095	93.367	79.096	28.042	1.00	96.35	C
ATOM	11558	CB	LEU	C1095	94.199	80.342	27.705	1.00	99.56	C
ATOM	11559	CG	LEU	C1095	94.526	80.615	26.226	1.00	99.56	C
ATOM	11560	CD1	LEU	C1095	95.628	81.667	26.144	1.00	99.56	C
ATOM	11561	CD2	LEU	C1095	94.986	79.337	25.520	1.00	99.56	C
ATOM	11562	C	LEU	C1095	93.467	78.790	29.533	1.00	96.35	C
ATOM	11563	O	LEU	C1095	94.422	78.146	29.974	1.00	96.35	C
ATOM	11564	N	ALA	C1096	92.477	79.237	30.304	1.00	99.47	C
ATOM	11565	CA	ALA	C1096	92.462	79.017	31.749	1.00	99.47	C
ATOM	11566	CB	ALA	C1096	91.344	79.847	32.385	1.00	59.09	C
ATOM	11567	C	ALA	C1096	92.309	77.546	32.141	1.00	99.47	C
ATOM	11568	O	ALA	C1096	91.527	77.217	33.033	1.00	99.47	C
ATOM	11569	N	LEU	C1097	93.060	76.662	31.488	1.00	99.01	C
ATOM	11570	CA	LEU	C1097	92.975	75.242	31.812	1.00	99.01	C
ATOM	11571	CB	LEU	C1097	93.854	74.395	30.866	1.00	80.69	C
ATOM	11572	CG	LEU	C1097	93.611	72.870	30.762	1.00	80.69	C
ATOM	11573	CD1	LEU	C1097	93.789	72.419	29.315	1.00	80.69	C
ATOM	11574	CD2	LEU	C1097	94.541	72.099	31.687	1.00	80.69	C
ATOM	11575	C	LEU	C1097	93.401	75.053	33.260	1.00	99.01	C
ATOM	11576	O	LEU	C1097	93.713	76.015	33.963	1.00	99.01	C
ATOM	11577	N	ASP	C1098	93.402	73.795	33.682	1.00	100.07	C
ATOM	11578	CA	ASP	C1098	93.758	73.418	35.040	1.00	100.07	C
ATOM	11579	CB	ASP	C1098	95.266	73.457	35.249	1.00	100.07	C
ATOM	11580	CG	ASP	C1098	95.804	72.141	35.762	1.00	100.07	C
ATOM	11581	OD1	ASP	C1098	95.137	71.531	36.629	1.00	100.07	C
ATOM	11582	OD2	ASP	C1098	96.893	71.726	35.297	1.00	100.07	C
ATOM	11583	C	ASP	C1098	93.101	74.345	36.030	1.00	100.07	C
ATOM	11584	O	ASP	C1098	93.772	75.180	36.647	1.00	100.07	C
ATOM	11585	N	VAL	C1099	91.786	74.221	36.164	1.00	52.69	C
ATOM	11586	CA	VAL	C1099	91.072	75.037	37.121	1.00	52.69	C
ATOM	11587	CB	VAL	C1099	89.621	74.624	37.240	1.00	42.70	C
ATOM	11588	CG1	VAL	C1099	88.781	75.321	36.190	1.00	42.70	C
ATOM	11589	CG2	VAL	C1099	89.541	73.121	37.115	1.00	42.70	C
ATOM	11590	C	VAL	C1099	91.783	74.722	38.414	1.00	52.69	C
ATOM	11591	O	VAL	C1099	91.812	75.541	39.321	1.00	52.69	C
ATOM	11592	N	GLN	C1100	92.359	73.523	38.485	1.00	36.26	C
ATOM	11593	CA	GLN	C1100	93.134	73.126	39.655	1.00	36.26	C
ATOM	11594	CB	GLN	C1100	94.151	74.247	39.966	1.00	100.07	C
ATOM	11595	CG	GLN	C1100	95.150	73.996	41.090	1.00	100.07	C
ATOM	11596	CD	GLN	C1100	95.834	75.271	41.560	1.00	100.07	C
ATOM	11597	OE1	GLN	C1100	95.167	76.264	41.879	1.00	100.07	C
ATOM	11598	NE2	GLN	C1100	97.169	75.245	41.628	1.00	100.07	C
ATOM	11599	C	GLN	C1100	92.306	72.818	40.897	1.00	36.26	C
ATOM	11600	O	GLN	C1100	92.481	73.463	41.924	1.00	36.26	C
ATOM	11601	N	LEU	C1101	91.415	71.837	40.814	1.00	76.28	C
ATOM	11602	CA	LEU	C1101	90.584	71.435	41.945	1.00	76.28	C
ATOM	11603	CB	LEU	C1101	89.785	70.216	41.531	1.00	70.02	C
ATOM	11604	CG	LEU	C1101	89.202	69.415	42.667	1.00	70.02	C
ATOM	11605	CD1	LEU	C1101	88.296	70.299	43.506	1.00	70.02	C
ATOM	11606	CD2	LEU	C1101	88.459	68.252	42.084	1.00	70.02	C
ATOM	11607	C	LEU	C1101	91.452	71.137	43.188	1.00	76.28	C
ATOM	11608	O	LEU	C1101	92.672	71.054	43.064	1.00	76.28	C
ATOM	11609	N	ALA	C1102	90.857	71.018	44.377	1.00	100.07	C
ATOM	11610	CA	ALA	C1102	91.648	70.757	45.592	1.00	100.07	C
ATOM	11611	CB	ALA	C1102	92.425	72.020	45.984	1.00	78.12	C
ATOM	11612	C	ALA	C1102	90.851	70.237	46.802	1.00	100.07	C
ATOM	11613	O	ALA	C1102	89.609	70.195	46.763	1.00	100.07	C
ATOM	11614	N	ALA	C1103	91.566	69.853	47.866	1.00	100.07	C
ATOM	11615	CA	ALA	C1103	90.953	69.278	49.077	1.00	100.07	C
ATOM	11616	CB	ALA	C1103	90.996	67.750	48.967	1.00	92.98	C
ATOM	11617	C	ALA	C1103	91.607	69.731	50.394	1.00	100.07	C
ATOM	11618	O	ALA	C1103	92.781	69.445	50.626	1.00	100.07	C
ATOM	11619	N	ALA	C1104	90.839	70.414	51.250	1.00	64.19	C
ATOM	11620	CA	ALA	C1104	91.331	70.926	52.539	1.00	64.19	C
ATOM	11621	CB	ALA	C1104	91.043	69.931	53.654	1.00	36.28	C
ATOM	11622	C	ALA	C1104	92.808	71.167	52.428	1.00	64.19	C
ATOM	11623	O	ALA	C1104	93.250	72.104	51.770	1.00	64.19	C
ATOM	11624	N	ALA	C1105	93.572	70.274	53.039	1.00	100.07	C
ATOM	11625	CA	ALA	C1105	95.025	70.361	52.999	1.00	100.07	C
ATOM	11626	CB	ALA	C1105	95.635	69.269	53.870	1.00	80.10	C
ATOM	11627	C	ALA	C1105	95.528	70.242	51.577	1.00	100.07	C
ATOM	11628	O	ALA	C1105	95.880	69.155	51.134	1.00	100.07	C
ATOM	11629	N	ALA	C1106	95.536	71.374	50.878	1.00	72.55	C
ATOM	11630	CA	ALA	C1106	95.986	71.473	49.492	1.00	72.55	C
ATOM	11631	CB	ALA	C1106	96.904	72.628	49.359	1.00	18.54	C
ATOM	11632	C	ALA	C1106	96.654	70.220	48.956	1.00	72.55	C
ATOM	11633	O	ALA	C1106	97.873	70.184	48.744	1.00	72.55	C
ATOM	11634	N	ALA	C1107	95.836	69.190	48.746	1.00	100.07	C
ATOM	11635	CA	ALA	C1107	96.308	67.912	48.232	1.00	100.07	C
ATOM	11636	CB	ALA	C1107	96.144	66.813	49.301	1.00	19.57	C
ATOM	11637	C	ALA	C1107	95.565	67.530	46.948	1.00	100.07	C
ATOM	11638	O	ALA	C1107	95.438	68.338	46.026	1.00	100.07	C



ATOM	11639	N	ALA	C1108	95.063	66.303	46.893	1.00100.07	
ATOM	11640	CA	ALA	C1108	94.362	65.827	45.707	1.00100.07	C
ATOM	11641	CB	ALA	C1108	93.883	64.396	45.932	1.00100.07	C
ATOM	11642	C	ALA	C1108	93.188	66.702	45.290	1.00100.07	C
ATOM	11643	O	ALA	C1108	92.782	67.628	46.001	1.00100.07	C
ATOM	11644	N	ALA	C1109	92.658	66.390	44.114	1.00 95.74	C
ATOM	11645	CA	ALA	C1109	91.520	67.098	43.551	1.00 95.74	C
ATOM	11646	CB	ALA	C1109	91.944	67.853	42.317	1.00 90.04	C
ATOM	11647	C	ALA	C1109	90.506	66.031	43.177	1.00 95.74	C
ATOM	11648	O	ALA	C1109	89.333	66.121	43.532	1.00 95.74	C
ATOM	11649	N	ALA	C1110	90.988	65.010	42.470	1.00100.07	C
ATOM	11650	CA	ALA	C1110	90.171	63.888	42.013	1.00100.07	C
ATOM	11651	CB	ALA	C1110	89.654	63.074	43.222	1.00 72.21	C
ATOM	11652	C	ALA	C1110	89.008	64.357	41.147	1.00100.07	C
ATOM	11653	O	ALA	C1110	87.851	64.031	41.423	1.00100.07	C
ATOM	11654	N	ILE	C1111	89.333	65.132	40.105	1.00100.07	C
ATOM	11655	CA	ILE	C1111	88.331	65.678	39.169	1.00100.07	C
ATOM	11656	CB	ILE	C1111	88.996	66.442	37.940	1.00100.07	C
ATOM	11657	CG2	ILE	C1111	87.946	67.297	37.213	1.00100.07	C
ATOM	11658	CG1	ILE	C1111	90.155	67.330	38.410	1.00100.07	C
ATOM	11659	CD	ILE	C1111	90.949	67.968	37.299	1.00100.07	C
ATOM	11660	C	ILE	C1111	87.570	64.471	38.622	1.00100.07	C
ATOM	11661	O	ILE	C1111	88.160	63.395	38.450	1.00100.07	C
ATOM	11662	N	PHE	C1112	86.276	64.648	38.365	1.00100.07	C
ATOM	11663	CA	PHE	C1112	85.413	63.593	37.829	1.00100.07	C
ATOM	11664	CB	PHE	C1112	84.486	64.207	36.787	1.00 99.62	C
ATOM	11665	CG	PHE	C1112	85.152	65.234	35.916	1.00 99.62	C
ATOM	11666	CD1	PHE	C1112	86.233	64.895	35.116	1.00 99.62	C
ATOM	11667	CD2	PHE	C1112	84.690	66.539	35.896	1.00 99.62	C
ATOM	11668	CE1	PHE	C1112	86.843	65.854	34.299	1.00 99.62	C
ATOM	11669	CE2	PHE	C1112	85.281	67.493	35.098	1.00 99.62	C
ATOM	11670	CZ	PHE	C1112	86.360	67.158	34.291	1.00 99.62	C
ATOM	11671	C	PHE	C1112	86.133	62.387	37.202	1.00100.07	C
ATOM	11672	O	PHE	C1112	87.233	62.521	36.679	1.00100.07	C
ATOM	11673	N	PHE	C1113	85.465	61.230	37.236	1.00100.07	C
ATOM	11674	CA	PHE	C1113	85.933	59.937	36.694	1.00100.07	C
ATOM	11675	CB	PHE	C1113	87.390	59.977	36.187	1.00100.07	C
ATOM	11676	CG	PHE	C1113	87.532	60.489	34.783	1.00100.07	C
ATOM	11677	CD1	PHE	C1113	88.194	61.694	34.537	1.00100.07	C
ATOM	11678	CD2	PHE	C1113	86.989	59.789	33.707	1.00100.07	C
ATOM	11679	CE1	PHE	C1113	88.312	62.211	33.237	1.00100.07	C
ATOM	11680	CE2	PHE	C1113	87.096	60.288	32.402	1.00100.07	C
ATOM	11681	CZ	PHE	C1113	87.765	61.509	32.168	1.00100.07	C
ATOM	11682	C	PHE	C1113	85.801	58.859			



ATOM	11723	C	ALA	D	11	93.806	79.293	38.842	1.00	40.99	
ATOM	11724	O	ALA	D	11	94.491	79.615	39.820	1.00	40.99	D
ATOM	11725	N	ALA	D	12	94.247	79.380	37.594	1.00	56.28	D
ATOM	11726	CA	ALA	D	12	95.584	79.855	37.293	1.00	56.28	D
ATOM	11727	CB	ALA	D	12	96.607	79.036	38.049	1.00100.07		D
ATOM	11728	C	ALA	D	12	95.794	79.708	35.804	1.00	56.28	D
ATOM	11729	O	ALA	D	12	94.852	79.385	35.086	1.00	56.28	D
ATOM	11730	N	ALA	D	13	97.026	79.935	35.344	1.00	84.89	D
ATOM	11731	CA	ALA	D	13	97.355	79.831	33.922	1.00	84.89	D
ATOM	11732	CB	ALA	D	13	98.469	80.804	33.568	1.00	17.96	D
ATOM	11733	C	ALA	D	13	97.749	78.414	33.514	1.00	84.89	D
ATOM	11734	O	ALA	D	13	98.235	77.625	34.329	1.00	84.89	D
ATOM	11735	N	ALA	D	14	97.532	78.102	32.239	1.00100.07		D
ATOM	11736	CA	ALA	D	14	97.839	76.781	31.709	1.00100.07		D
ATOM	11737	CB	ALA	D	14	96.572	75.941	31.673	1.00	45.15	D
ATOM	11738	C	ALA	D	14	98.447	76.861	30.314	1.00100.07		D
ATOM	11739	O	ALA	D	14	97.862	77.458	29.408	1.00100.07		D
ATOM	11740	N	ALA	D	15	99.617	76.250	30.141	1.00	72.38	D
ATOM	11741	CA	ALA	D	15	100.295	76.257	28.847	1.00	72.38	D
ATOM	11742	CB	ALA	D	15	101.630	76.978	28.956	1.00	83.66	D
ATOM	11743	C	ALA	D	15	100.513	74.842	28.334	1.00	72.38	D
ATOM	11744	O	ALA	D	15	100.406	73.873	29.098	1.00	72.38	D
ATOM	11745	N	ALA	D	16	100.829	74.750	27.039	1.00	60.85	D
ATOM	11746	CA	ALA	D	16	101.069	73.485	26.346	1.00	60.85	D
ATOM	11747	CB	ALA	D	16	102.241	73.622	25.412	1.00	31.86	D
ATOM	11748	C	ALA	D	16	101.304	72.332	27.305	1.00	60.85	D
ATOM	11749	O	ALA	D	16	100.345	71.748	27.805	1.00	60.85	D
ATOM	11750	N	ALA	D	17	102.574	72.016	27.556	1.00100.07		D
ATOM	11751	CA	ALA	D	17	102.967	70.929	28.460	1.00100.07		D
ATOM	11752	CB	ALA	D	17	103.967	71.451	29.496	1.00100.07		D
ATOM	11753	C	ALA	D	17	101.781	70.253	29.162	1.00100.07		D
ATOM	11754	O	ALA	D	17	101.555	69.051	28.995	1.00100.07		D
ATOM	11755	N	ALA	D	18	101.030	71.023	29.948	1.00	99.82	D
ATOM	11756	CA	ALA	D	18	99.863	70.484	30.636	1.00	99.82	D
ATOM	11757	CB	ALA	D	18	99.522	71.328	31.869	1.00	52.21	D
ATOM	11758	C	ALA	D	18	98.690	70.479	29.664	1.00	99.82	D
ATOM	11759	O	ALA	D	18	98.154	69.423	29.342	1.00	99.82	D
ATOM	11760	N	ALA	D	19	98.311	71.662	29.185	1.00	36.78	D
ATOM	11761	CA	ALA	D	19	97.192	71.792	28.253	1.00	36.78	D
ATOM	11762	CB	ALA	D	19	97.191	73.185	27.605	1.00	30.74	D
ATOM	11763	C	ALA	D	19	97.221	70.718				







ATOM	11891	N	ALA	E	118	100.594	92.427	28.032	1.00	68.38	E
ATOM	11892	CA	ALA	E	118	101.361	93.552	27.540	1.00	68.38	E
ATOM	11893	CB	ALA	E	118	100.576	94.263	26.447	1.00	100.07	E
ATOM	11894	C	ALA	E	118	101.675	94.517	28.685	1.00	68.38	E
ATOM	11895	O	ALA	E	118	102.702	95.201	28.680	1.00	68.38	E
ATOM	11896	N	ALA	E	119	100.783	94.560	29.670	1.00	62.26	E
ATOM	11897	CA	ALA	E	119	100.939	95.444	30.822	1.00	62.26	E
ATOM	11898	CB	ALA	E	119	99.949	95.051	31.922	1.00	68.19	E
ATOM	11899	C	ALA	E	119	102.354	95.417	31.370	1.00	62.26	E
ATOM	11900	O	ALA	E	119	102.840	96.413	31.899	1.00	62.26	E
ATOM	11901	N	ALA	E	120	103.016	94.276	31.222	1.00	78.26	E
ATOM	11902	CA	ALA	E	120	104.367	94.114	31.732	1.00	78.26	E
ATOM	11903	CB	ALA	E	120	104.514	92.699	32.341	1.00	20.11	E
ATOM	11904	C	ALA	E	120	105.500	94.390	30.723	1.00	78.26	E
ATOM	11905	O	ALA	E	120	106.483	93.644	30.668	1.00	78.26	E
ATOM	11906	N	ALA	E	121	105.366	95.460	29.934	1.00	56.21	E
ATOM	11907	CA	ALA	E	121	106.393	95.845	28.950	1.00	56.21	E
ATOM	11908	CB	ALA	E	121	106.759	94.657	28.047	1.00	12.10	E
ATOM	11909	C	ALA	E	121	105.987	97.043	28.090	1.00	56.21	E
ATOM	11910	O	ALA	E	121	106.373	97.139	26.928	1.00	56.21	E
ATOM	11911	N	ALA	E	122	105.205	97.946	28.672	1.00	92.97	E
ATOM	11912	CA	ALA	E	122	104.751	99.158	27.994	1.00	92.97	E
ATOM	11913	CB	ALA	E	122	105.766	100.268	28.215	1.00	6.62	E
ATOM	11914	C	ALA	E	122	104.456	99.024	26.497	1.00	92.97	E
ATOM	11915	O	ALA	E	122	105.324	99.280	25.662	1.00	92.97	E
ATOM	11916	N	ALA	E	123	103.225	98.645	26.165	1.00	99.76	E
ATOM	11917	CA	ALA	E	123	102.811	98.493	24.772	1.00	99.76	E
ATOM	11918	CB	ALA	E	123	102.896	97.023	24.357	1.00	100.07	E
ATOM	11919	C	ALA	E	123	101.388	99.030	24.563	1.00	99.76	E
ATOM	11920	O	ALA	E	123	101.126	100.199	24.844	1.00	99.76	E
ATOM	11921	N	ALA	E	124	100.478	98.175	24.087	1.00	52.94	E
ATOM	11922	CA	ALA	E	124	99.084	98.555	23.824	1.00	52.94	E
ATOM	11923	CB	ALA	E	124	98.428	99.076	25.091	1.00	91.04	E
ATOM	11924	C	ALA	E	124	99.108	99.635	22.761	1.00	52.94	E
ATOM	11925	O	ALA	E	124	99.839	100.614	22.897	1.00	52.94	E
ATOM	11926	N	ALA	E	125	98.305	99.476	21.713	1.00	100.07	E
ATOM	11927	CA	ALA	E	125	98.305	100.432	20.603	1.00	100.07	E
ATOM	11928	CB	ALA	E	125	98.183	101.866	21.107	1.00	62.84	E
ATOM	11929	C	ALA	E	125	99.667	100.198	19.952	1.00	100.07	E
ATOM	11930	O	ALA	E	125	99.800	100.199	18.727	1.00	100.07	E
ATOM	11931	N	ALA	E	126	100.673	99.995	20.800	1.00	48.23	E
ATOM	11932	CA	ALA	E	126	102.023	99.682	20.367	1.00	48.23	E
ATOM	11933	CB	ALA	E	126	103.009	99.870	21.516	1.00	53.31	E
ATOM	11934	C	ALA	E	126	101.887	98.204	20.022	1.00	48.23	E
ATOM	11935	O	ALA	E	126	102.121	97.802	18.888	1.00	48.23	E
ATOM	11936	N	ALA	E	127	101.481	97.403	21.009	1.00	42.94	E
ATOM	11937	CA	ALA	E	127	101.272	95.969	20.807	1.00	42.94	E
ATOM	11938	CB	ALA	E	127	100.888	95.266	22.138	1.00	27.39	E
ATOM	11939	C	ALA	E	127	100.154	95.815	19.779	1.00	42.94	E
ATOM	11940	O	ALA	E	127	99.945	94.735	19.245	1.00	42.94	E
ATOM	11941	N	ALA	E	128	99.427	96.900	19.517	1.00	99.91	E
ATOM	11942	CA	ALA	E	128	98.366	96.866	18.514	1.00	99.91	E
ATOM	11943	CB	ALA	E	128	97.690	98.220	18.397	1.00	100.07	E
ATOM	11944	C	ALA	E	128	99.110	96.540	17.233	1.00	99.91	E
ATOM	11945	O	ALA	E	128	98.584	95.889	16.327	1.00	99.91	E
ATOM	11946	N	ALA	E	129	100.347	97.022	17.169	1.00	61.39	E
ATOM	11947	CA	ALA	E	129	101.213	96.739	16.043	1.00	61.39	E
ATOM	11948	CB	ALA	E	129	102.421	97.667	16.049	1.00	87.87	E
ATOM	11949	C	ALA	E	129	101.627	95.304	16.353	1.00	61.39	E
ATOM	11950	O	ALA	E	129	100.848	94.560	16.940	1.00	61.39	E
ATOM	11951	N	ALA	E	130	102.843	94.915	15.997	1.00	85.96	E
ATOM	11952	CA	ALA	E	130	103.290	93.549	16.252	1.00	85.96	E
ATOM	11953	CB	ALA	E	130	103.762	93.398	17.705	1.00	36.23	E
ATOM	11954	C	ALA	E	130	102.161	92.563	15.961	1.00	85.96	E
ATOM	11955	O	ALA	E	130	102.185	91.423	16.430	1.00	85.96	E
ATOM	11956	N	ALA	E	131	101.172	93.019	15.189	1.00	100.07	E
ATOM	11957	CA	ALA	E	131	100.021	92.202	14.807	1.00	100.07	E
ATOM	11958	CB	ALA	E	131	98.708	92.893	15.212	1.00	81.68	E
ATOM	11959	C	ALA	E	131	100.055	91.970	13.297	1.00	100.07	E
ATOM	11960	O	ALA	E	131	99.037	92.079	12.607	1.00	100.07	E
ATOM	11961	N	ALA	E	132	101.248	91.669	12.794	1.00	94.68	E
ATOM	11962	CA	ALA	E	132	101.441	91.396	11.383	1.00	94.68	E
ATOM	11963	CB	ALA	E	132	102.918	91.571	11.012	1.00	38.26	E
ATOM	11964	C	ALA	E	132	100.983	89.956	11.139	1.00	94.68	E
ATOM	11965	O	ALA	E	132	99.954	89.798	10.458	1.00	94.68	E
ATOM	11966	OT	ALA	E	132	101.624	89.004	11.646	1.00	38.26	E
ATOM	11967	CB	ALA	F	462	101.935	86.175	18.086	1.00	100.07	F
ATOM	11968	C	ALA	F	462	104.317	85.854	18.755	1.00	66.01	F
ATOM	11969	O	ALA	F	462	104.206	85.675	19.962	1.00	66.01	F
ATOM	11970	N	ALA	F	462	103.736	86.958	16.581	1.00	66.01	F
ATOM	11971	CA	ALA	F	462	103.342	86.757	18.011	1.00	66.01	F
ATOM	11972	N	ALA	F	463	105.267	85.278	18.030	1.00	79.79	F
ATOM	11973	CA	ALA	F	463	106.264	84.404	18.638	1.00	79.79	F
ATOM	11974	CB	ALA	F	463	107.036	83.652	17.554	1.00	100.07	F



ATOM	11975	C	ALA	F	463	107.220	85.260	19.458	1.00	79.79	F
ATOM	11976	O	ALA	F	463	107.693	84.852	20.519	1.00	79.79	F
ATOM	11977	N	ALA	F	464	107.509	86.449	18.940	1.00	51.07	F
ATOM	11978	CA	ALA	F	464	108.398	87.384	19.613	1.00	51.07	F
ATOM	11979	CB	ALA	F	464	108.716	88.548	18.697	1.00	100.07	F
ATOM	11980	C	ALA	F	464	107.662	87.869	20.842	1.00	51.07	F
ATOM	11981	O	ALA	F	464	108.170	87.781	21.962	1.00	51.07	F
ATOM	11982	N	ALA	F	465	106.454	88.378	20.614	1.00	100.07	F
ATOM	11983	CA	ALA	F	465	105.611	88.853	21.693	1.00	100.07	F
ATOM	11984	CB	ALA	F	465	104.187	88.961	21.219	1.00	35.10	F
ATOM	11985	C	ALA	F	465	105.737	87.777	22.756	1.00	100.07	F
ATOM	11986	O	ALA	F	465	105.584	88.035	23.953	1.00	100.07	F
ATOM	11987	N	ALA	F	466	106.031	86.564	22.288	1.00	63.24	F
ATOM	11988	CA	ALA	F	466	106.215	85.412	23.159	1.00	63.24	F
ATOM	11989	CB	ALA	F	466	105.942	84.090	22.385	1.00	14.05	F
ATOM	11990	C	ALA	F	466	107.650	85.446	23.655	1.00	63.24	F
ATOM	11991	O	ALA	F	466	107.916	85.791	24.808	1.00	63.24	F
ATOM	11992	N	ALA	F	467	108.567	85.099	22.759	1.00	99.18	F
ATOM	11993	CA	ALA	F	467	109.988	85.068	23.070	1.00	99.18	F
ATOM	11994	CB	ALA	F	467	110.804	85.146	21.784	1.00	35.14	F
ATOM	11995	C	ALA	F	467	110.342	86.218	23.993	1.00	99.18	F
ATOM	11996	O	ALA	F	467	110.957	86.021	25.036	1.00	99.18	F
ATOM	11997	N	ALA	F	468	109.935	87.420	23.610	1.00	62.05	F
ATOM	11998	CA	ALA	F	468	110.217	88.592	24.414	1.00	62.05	F
ATOM	11999	CB	ALA	F	468	109.595	89.838	23.757	1.00	54.99	F
ATOM	12000	C	ALA	F	468	109.672	88.383	25.837	1.00	62.05	F
ATOM	12001	O	ALA	F	468	110.357	88.669	26.833	1.00	62.05	F
ATOM	12002	N	ALA	F	469	108.452	87.860	25.932	1.00	51.19	F
ATOM	12003	CA	ALA	F	469	107.822	87.628	27.230	1.00	51.19	F
ATOM	12004	CB	ALA	F	469	106.313	87.377	27.046	1.00	14.58	F
ATOM	12005	C	ALA	F	469	108.490	86.466	27.973	1.00	51.19	F
ATOM	12006	O	ALA	F	469	108.425	86.365	29.196	1.00	51.19	F
ATOM	12007	N	ALA	F	470	109.145	85.590	27.231	1.00	74.88	F
ATOM	12008	CA	ALA	F	470	109.827	84.472	27.860	1.00	74.88	F
ATOM	12009	CB	ALA	F	470	109.917	83.297	26.881	1.00	88.67	F
ATOM	12010	C	ALA	F	470	111.229	84.938	28.265	1.00	74.88	F
ATOM	12011	O	ALA	F	470	111.863	84.371	29.161	1.00	74.88	F
ATOM	12012	N	ALA	F	471	111.697	85.988	27.596	1.00	100.07	F
ATOM	12013	CA	ALA	F	471	113.027	86.540	27.840	1.00	100.07	F
ATOM	12014	CB	ALA	F	471	113.468	87.377	26.643	1.00	100.07	F
ATOM	12015	C	ALA	F	471	113.084	87.380	29.098	1.00	100.07	F
ATOM	12016	O	ALA	F	471	113.645	86.955	30.112	1.00	100.07	F
ATOM	12017	N	ALA	F	472	112.510	88.579	29.016	1.00	99.94	F
ATOM	12018	CA	ALA	F	472	112.478	89.504	30.147	1.00	99.94	F
ATOM	12019	CB	ALA	F	472	111.647	90.738	29.795	1.00	100.07	F
ATOM	12020	C	ALA	F	472	111.882	88.793	31.355	1.00	99.94	F
ATOM	12021	O	ALA	F	472	111.852	89.333	32.465	1.00	99.94	F
ATOM	12022	N	ALA	F	473	111.407	87.574	31.114	1.00	100.07	F
ATOM	12023	CA	ALA	F	473	110.817	86.738	32.143	1.00	100.07	F
ATOM	12024	CB	ALA	F	473	110.238	85.469	31.514	1.00	81.68	F
ATOM	12025	C	ALA	F	473	111.899	86.388	33.160	1.00	100.07	F
ATOM	12026	O	ALA	F	473	111.839	85.349	33.825	1.00	100.07	F
ATOM	12027	N	ALA	F	474	112.891	87.269	33.266	1.00	72.28	F
ATOM	12028	CA	ALA	F	474	113.988	87.087	34.200	1.00	72.28	F
ATOM	12029	CB	ALA	F	474	115.041	88.169	33.987	1.00	82.76	F
ATOM	12030	C	ALA	F	474	113.424	87.163	35.613	1.00	72.28	F
ATOM	12031	O	ALA	F	474	114.162	87.369	36.579	1.00	72.28	F
ATOM	12032	N	ALA	F	475	112.105	86.996	35.709	1.00	100.07	F
ATOM	12033	CA	ALA	F	475	111.365	87.021	36.970	1.00	100.07	F
ATOM	12034	CB	ALA	F	475	111.592	85.710	37.739	1.00	100.07	F
ATOM	12035	C	ALA	F	475	111.718	88.217	37.851	1.00	100.07	F
ATOM	12036	O	ALA	F	475	111.119	89.288	37.727	1.00	100.07	F
ATOM	12037	N	ALA	F	476	112.683	88.018	38.744	1.00	90.75	F
ATOM	12038	CA	ALA	F	476	113.128	89.064	39.653	1.00	90.75	F
ATOM	12039	CB	ALA	F	476	114.329	88.569	40.466	1.00	100.07	F
ATOM	12040	C	ALA	F	476	113.492	90.330	38.878	1.00	90.75	F
ATOM	12041	O	ALA	F	476	112.616	91.012	38.352	1.00	90.75	F
ATOM	12042	N	ALA	F	477	114.786	90.631	38.809	1.00	99.66	F
ATOM	12043	CA	ALA	F	477	115.276	91.812	38.105	1.00	99.66	F
ATOM	12044	CB	ALA	F	477	115.598	91.462	36.658	1.00	87.62	F
ATOM	12045	C	ALA	F	477	114.255	92.941	38.156	1.00	99.66	F
ATOM	12046	O	ALA	F	477	114.169	93.670	39.149	1.00	99.66	F
ATOM	12047	N	ALA	F	478	113.481	93.070	37.080	1.00	99.82	F
ATOM	12048	CA	ALA	F	478	112.449	94.095	36.977	1.00	99.82	F
ATOM	12049	CB	ALA	F	478	111.446	93.716	35.887	1.00	47.43	F
ATOM	12050	C	ALA	F	478	111.739	94.279	38.318	1.00	99.82	F
ATOM	12051	O	ALA	F	478	111.186	95.341	38.602	1.00	99.82	F
ATOM	12052	N	ALA	F	479	111.751	93.232	39.137	1.00	100.07	F
ATOM	12053	CA	ALA	F	479	111.141	93.297	40.453	1.00	100.07	F
ATOM	12054	CB	ALA	F	479	111.254	91.947	41.157	1.00	59.19	F
ATOM	12055	C	ALA	F	479	111.924	94.360	41.213	1.00	100.07	F
ATOM	12056	O	ALA	F	479	111.421	95.456	41.453	1.00	100.07	F
ATOM	12057	N	ALA	F	480	113.167	94.035	41.568	1.00	71.00	F
ATOM	12058	CA	ALA	F	480	114.031	94.960	42.296	1.00	71.00	F



ATOM	12059	CB	ALA	F	480	115.445	94.405	42.382	1.00100.07	F
ATOM	12060	C	ALA	F	480	114.032	96.271	41.542	1.00 71.00	F
ATOM	12061	O	ALA	F	480	114.008	97.349	42.137	1.00 71.00	F
ATOM	12062	N	ALA	F	481	114.062	96.157	40.219	1.00 77.09	F
ATOM	12063	CA	ALA	F	481	114.051	97.319	39.348	1.00 77.09	F
ATOM	12064	CB	ALA	F	481	113.916	96.883	37.891	1.00 38.68	F
ATOM	12065	C	ALA	F	481	112.860	98.168	39.745	1.00 77.09	F
ATOM	12066	O	ALA	F	481	112.998	99.237	40.340	1.00 77.09	F
ATOM	12067	N	ALA	F	482	111.679	97.676	39.407	1.00 95.03	F
ATOM	12068	CA	ALA	F	482	110.464	98.383	39.739	1.00 95.03	F
ATOM	12069	CB	ALA	F	482	109.252	97.496	39.459	1.00-67.50	F
ATOM	12070	C	ALA	F	482	110.536	98.758	41.218	1.00 95.03	F
ATOM	12071	O	ALA	F	482	110.268	99.905	41.582	1.00 95.03	F
ATOM	12072	N	ALA	F	483	110.923	97.793	42.057	1.00 95.33	F
ATOM	12073	CA	ALA	F	483	111.034	98.008	43.502	1.00 95.33	F
ATOM	12074	CB	ALA	F	483	112.016	97.022	44.110	1.00100.07	F
ATOM	12075	C	ALA	F	483	111.502	99.427	43.746	1.00 95.33	F
ATOM	12076	O	ALA	F	483	110.882	100.177	44.500	1.00 95.33	F
ATOM	12077	N	ALA	F	484	112.601	99.788	43.092	1.00100.07	F
ATOM	12078	CA	ALA	F	484	113.149	101.133	43.197	1.00100.07	F
ATOM	12079	CB	ALA	F	484	114.645	101.127	42.851	1.00100.07	F
ATOM	12080	C	ALA	F	484	112.369	102.014	42.217	1.00100.07	F
ATOM	12081	O	ALA	F	484	112.854	102.363	41.136	1.00100.07	F
ATOM	12082	N	ALA	F	485	111.141	102.348	42.601	1.00100.07	F
ATOM	12083	CA	ALA	F	485	110.276	103.178	41.778	1.00100.07	F
ATOM	12084	CB	ALA	F	485	108.819	102.865	42.090	1.00 29.66	F
ATOM	12085	C	ALA	F	485	110.576	104.655	42.036	1.00100.07	F
ATOM	12086	O	ALA	F	485	110.049	105.531	41.345	1.00100.07	F
ATOM	12087	N	ALA	F	486	111.432	104.908	43.032	1.00100.07	F
ATOM	12088	CA	ALA	F	486	111.859	106.256	43.445	1.00100.07	F
ATOM	12089	CB	ALA	F	486	113.081	106.731	42.593	1.00 11.16	F
ATOM	12090	C	ALA	F	486	110.746	107.304	43.401	1.00100.07	F
ATOM	12091	O	ALA	F	486	109.569	106.985	43.595	1.00100.07	F
ATOM	12092	N	ALA	F	487	111.131	108.556	43.157	1.00100.07	F
ATOM	12093	CA	ALA	F	487	110.181	109.661	43.089	1.00100.07	F
ATOM	12094	CB	ALA	F	487	110.515	110.708	44.135	1.00 10.05	F
ATOM	12095	C	ALA	F	487	110.168	110.303	41.711	1.00100.07	F
ATOM	12096	O	ALA	F	487	111.107	110.147	40.924	1.00100.07	F
ATOM	12097	N	ALA	F	488	109.089	111.031	41.440	1.00 97.36	F
ATOM	12098	CA	ALA	F	488	108.885	111.722	40.172	1.00 97.36	F
ATOM	12099	CB	ALA	F	488	109.311	110.832	38.994	1.00 78.09	F
ATOM	12100	C	ALA	F	488	107.403	112.063	40.065	1.00 97.36	F
ATOM	12101	O	ALA	F	488	106.673	112.024	41.058	1.00 97.36	F
ATOM	12102	N	ALA	F	489	106.961	112.393	38.857	1.00100.07	F
ATOM	12103	CA	ALA	F	489	105.565	112.739	38.624	1.00100.07	F
ATOM	12104	CB	ALA	F	489	105.379	113.231	37.182	1.00 95.80	F
ATOM	12105	C	ALA	F	489	104.660	111.540	38.897	1.00100.07	F
ATOM	12106	O	ALA	F	489	104.450	111.156	40.051	1.00100.07	F
ATOM	12107	N	ALA	F	490	104.132	110.956	37.824	1.00 99.59	F
ATOM	12108	CA	ALA	F	490	103.245	109.804	37.921	1.00 99.59	F
ATOM	12109	CB	ALA	F	490	102.754	109.404	36.533	1.00 77.92	F
ATOM	12110	C	ALA	F	490	103.924	108.618	38.594	1.00 99.59	F
ATOM	12111	O	ALA	F	490	105.022	108.203	38.206	1.00 99.59	F
ATOM	12112	N	ALA	F	491	103.256	108.079	39.606	1.00 63.35	F
ATOM	12113	CA	ALA	F	491	103.771	106.941	40.344	1.00 63.35	F
ATOM	12114	CB	ALA	F	491	102.876	106.653	41.520	1.00 33.73	F
ATOM	12115	C	ALA	F	491	103.838	105.730	39.429	1.00 63.35	F
ATOM	12116	O	ALA	F	491	104.916	105.190	39.189	1.00 63.35	F
ATOM	12117	N	ALA	F	492	102.681	105.319	38.915	1.00 80.27	F
ATOM	12118	CA	ALA	F	492	102.594	104.167	38.024	1.00 80.27	F
ATOM	12119	CB	ALA	F	492	102.730	104.622	36.575	1.00 21.41	F
ATOM	12120	C	ALA	F	492	103.699	103.175	38.382	1.00 80.27	F
ATOM	12121	O	ALA	F	492	103.795	102.743	39.532	1.00 80.27	F
ATOM	12122	N	ALA	F	493	104.535	102.843	37.399	1.00100.07	F
ATOM	12123	CA	ALA	F	493	105.661	101.913	37.562	1.00100.07	F
ATOM	12124	CB	ALA	F	493	106.925	102.683	37.933	1.00100.07	F
ATOM	12125	C	ALA	F	493	105.408	100.812	38.583	1.00100.07	F
ATOM	12126	O	ALA	F	493	105.175	99.660	38.215	1.00100.07	F
ATOM	12127	N	ALA	F	494	105.481	101.167	39.864	1.00 72.51	F
ATOM	12128	CA	ALA	F	494	105.235	100.213	40.935	1.00 72.51	F
ATOM	12129	CB	ALA	F	494	105.018	100.952	42.260	1.00 52.38	F
ATOM	12130	C	ALA	F	494	103.982	99.439	40.544	1.00 72.51	F
ATOM	12131	O	ALA	F	494	103.901	98.227	40.734	1.00 72.51	F
ATOM	12132	N	ALA	F	495	103.020	100.162	39.972	1.00100.07	F
ATOM	12133	CA	ALA	F	495	101.753	99.588	39.526	1.00100.07	F
ATOM	12134	CB	ALA	F	495	101.020	100.581	38.631	1.00100.07	F
ATOM	12135	C	ALA	F	495	101.969	98.271	38.787	1.00100.07	F
ATOM	12136	O	ALA	F	495	101.095	97.404	38.769	1.00100.07	F
ATOM	12137	N	ALA	F	496	103.128	98.124	38.162	1.00 57.26	F
ATOM	12138	CA	ALA	F	496	103.420	96.888	37.465	1.00 57.26	F
ATOM	12139	CB	ALA	F	496	104.776	96.976	36.759	1.00 29.06	F
ATOM	12140	C	ALA	F	496	103.449	95.817	38.552	1.00 57.26	F
ATOM	12141	O	ALA	F	496	102.747	94.811	38.471	1.00 57.26	F
ATOM	12142	N	ALA	F	497	104.240	96.067	39.589	1.00 61.78	F



ATOM	12143	CA	ALA	F	497	104.390	95.130	40.698	1.00	61.78	F
ATOM	12144	CB	ALA	F	497	104.901	95.870	41.949	1.00	61.71	F
ATOM	12145	C	ALA	F	497	103.123	94.339	41.030	1.00	61.78	F
ATOM	12146	O	ALA	F	497	103.196	93.159	41.371	1.00	61.78	F
ATOM	12147	N	ALA	F	498	101.965	94.980	40.934	1.00	99.94	F
ATOM	12148	CA	ALA	F	498	100.718	94.289	41.232	1.00	99.94	F
ATOM	12149	CB	ALA	F	498	99.528	95.205	40.978	1.00	100.07	F
ATOM	12150	C	ALA	F	498	100.632	93.046	40.357	1.00	99.94	F
ATOM	12151	O	ALA	F	498	100.442	91.936	40.862	1.00	99.94	F
ATOM	12152	N	ALA	F	499	100.780	93.237	39.046	1.00	100.07	F
ATOM	12153	CA	ALA	F	499	100.740	92.124	38.100	1.00	100.07	F
ATOM	12154	CB	ALA	F	499	100.733	92.655	36.651	1.00	24.68	F
ATOM	12155	C	ALA	F	499	101.964	91.233	38.340	1.00	100.07	F
ATOM	12156	O	ALA	F	499	101.839	90.017	38.524	1.00	100.07	F
ATOM	12157	N	ALA	F	500	103.141	91.859	38.363	1.00	82.45	F
ATOM	12158	CA	ALA	F	500	104.408	91.158	38.571	1.00	82.45	F
ATOM	12159	CB	ALA	F	500	105.574	92.167	38.544	1.00	19.29	F
ATOM	12160	C	ALA	F	500	104.445	90.339	39.865	1.00	82.45	F
ATOM	12161	O	ALA	F	500	104.820	89.168	39.852	1.00	82.45	F
ATOM	12162	N	ALA	F	501	104.061	90.959	40.977	1.00	82.14	F
ATOM	12163	CA	ALA	F	501	104.054	90.284	42.273	1.00	82.14	F
ATOM	12164	CB	ALA	F	501	103.426	91.181	43.321	1.00	18.50	F
ATOM	12165	C	ALA	F	501	103.280	88.975	42.180	1.00	82.14	F
ATOM	12166	O	ALA	F	501	103.835	87.891	42.368	1.00	82.14	F
ATOM	12167	N	ALA	F	502	101.988	89.087	41.896	1.00	91.70	F
ATOM	12168	CA	ALA	F	502	101.144	87.913	41.762	1.00	91.70	F
ATOM	12169	CB	ALA	F	502	99.784	88.312	41.206	1.00	100.07	F
ATOM	12170	C	ALA	F	502	101.858	86.986	40.797	1.00	91.70	F
ATOM	12171	O	ALA	F	502	101.969	85.782	41.025	1.00	91.70	F
ATOM	12172	N	ALA	F	503	102.355	87.571	39.716	1.00	98.19	F
ATOM	12173	CA	ALA	F	503	103.064	86.805	38.711	1.00	98.19	F
ATOM	12174	CB	ALA	F	503	103.558	87.726	37.604	1.00	14.32	F
ATOM	12175	C	ALA	F	503	104.230	86.080	39.369	1.00	98.19	F
ATOM	12176	O	ALA	F	503	104.156	84.871	39.611	1.00	98.19	F
ATOM	12177	N	ALA	F	504	105.295	86.824	39.673	1.00	100.07	F
ATOM	12178	CA	ALA	F	504	106.486	86.256	40.304	1.00	100.07	F
ATOM	12179	CB	ALA	F	504	107.430	87.401	40.829	1.00	5.07	F
ATOM	12180	C	ALA	F	504	106.070	85.307	41.438	1.00	100.07	F
ATOM	12181	O	ALA	F	504	106.858	84.473	41.894	1.00	100.07	F
ATOM	12182	N	ALA	F	505	104.816	85.430	41.868	1.00	98.28	F
ATOM	12183	CA	ALA	F	505	104.276	84.589	42.924	1.00	98.28	F
ATOM	12184	CB	ALA	F	505	103.045	85.238	43.518	1.00	32.21	F
ATOM	12185	C	ALA	F	505	103.926	83.220	42.354	1.00	98.28	F
ATOM	12186	O	ALA	F	505	104.463	82.201	42.794	1.00	98.28	F
ATOM	12187	N	GLY	F	506	103.028	83.200	41.372	1.00	64.41	F
ATOM	12188	CA	GLY	F	506	102.632	81.946	40.756	1.00	64.41	F
ATOM	12189	C	GLY	F	506	102.075	82.191	39.370	1.00	64.41	F
ATOM	12190	O	GLY	F	506	100.863	82.299	39.216	1.00	64.41	F
ATOM	12191	N	ALA	F	507	102.952	82.280	38.366	1.00	100.07	F
ATOM	12192	CA	ALA	F	507	102.537	82.530	36.975	1.00	100.07	F
ATOM	12193	CB	ALA	F	507	102.296	84.033	36.769	1.00	100.07	F
ATOM	12194	C	ALA	F	507	103.522	82.019	35.907	1.00	100.07	F
ATOM	12195	O	ALA	F	507	103.974	80.875	35.966	1.00	100.07	F
ATOM	12196	N	ALA	F	508	103.820	82.889	34.935	1.00	78.66	F
ATOM	12197	CA	ALA	F	508	104.733	82.643	33.805	1.00	78.66	F
ATOM	12198	CB	ALA	F	508	104.817	81.156	33.471	1.00	8.77	F
ATOM	12199	C	ALA	F	508	104.190	83.400	32.595	1.00	78.66	F
ATOM	12200	O	ALA	F	508	103.188	84.098	32.700	1.00	78.66	F
ATOM	12201	N	PRO	F	509	104.867	83.303	31.441	1.00	37.13	F
ATOM	12202	CD	PRO	F	509	106.278	82.889	31.292	1.00	100.07	F
ATOM	12203	CA	PRO	F	509	104.416	83.979	30.221	1.00	37.13	F
ATOM	12204	CB	PRO	F	509	105.706	84.545	29.663	1.00	100.07	F
ATOM	12205	CG	PRO	F	509	106.642	83.385	29.874	1.00	100.07	F
ATOM	12206	C	PRO	F	509	103.860	82.849	29.340	1.00	37.13	F
ATOM	12207	O	PRO	F	509	104.193	82.729	28.153	1.00	37.13	F
ATOM	12208	N	GLU	F	510	103.048	81.996	29.968	1.00	99.79	F
ATOM	12209	CA	GLU	F	510	102.416	80.848	29.320	1.00	99.79	F
ATOM	12210	CB	GLU	F	510	102.211	79.729	30.347	1.00	60.32	F
ATOM	12211	CG	GLU	F	510	103.496	79.265	31.021	1.00	60.32	F
ATOM	12212	CD	GLU	F	510	103.286	78.189	32.093	1.00	60.32	F
ATOM	12213	OE1	GLU	F	510	102.708	77.115	31.789	1.00	60.32	F
ATOM	12214	OE2	GLU	F	510	103.719	78.416	33.248	1.00	60.32	F
ATOM	12215	C	GLU	F	510	101.070	81.266	28.729	1.00	99.79	F
ATOM	12216	O	GLU	F	510	100.292	80.439	28.256	1.00	99.79	F
ATOM	12217	N	TRP	F	511	100.807	82.564	28.769	1.00	37.61	F
ATOM	12218	CA	TRP	F	511	99.581	83.118	28.248	1.00	37.61	F
ATOM	12219	CB	TRP	F	511	98.986	84.108	29.249	1.00	99.43	F
ATOM	12220	CG	TRP	F	511	99.942	85.166	29.700	1.00	99.43	F
ATOM	12221	CD2	TRP	F	511	99.611	86.427	30.293	1.00	99.43	F
ATOM	12222	CE2	TRP	F	511	100.824	87.048	30.660	1.00	99.43	F
ATOM	12223	CE3	TRP	F	511	98.407	87.090	30.555	1.00	99.43	F
ATOM	12224	CD1	TRP	F	511	101.303	85.082	29.724	1.00	99.43	F
ATOM	12225	NE1	TRP	F	511	101.842	86.206	30.300	1.00	99.43	F
ATOM	12226	CZ2	TRP	F	511	100.869	88.302	31.279	1.00	99.43	F



ATOM	12227	CZ3	TRP	F	511	98.454	88.339	31.173	1.00	99.43	F
ATOM	12228	CH2	TRP	F	511	99.678	88.928	31.527	1.00	99.43	F
ATOM	12229	C	TRP	F	511	99.856	83.815	26.938	1.00	37.61	F
ATOM	12230	O	TRP	F	511	99.749	85.024	26.845	1.00	37.61	F
ATOM	12231	N	MET	F	512	100.246	83.044	25.936	1.00	34.52	F
ATOM	12232	CA	MET	F	512	100.501	83.558	24.596	1.00	34.52	F
ATOM	12233	CB	MET	F	512	101.934	84.073	24.470	1.00	100.07	F
ATOM	12234	CG	MET	F	512	102.083	85.472	25.067	1.00	100.07	F
ATOM	12235	SD	MET	F	512	103.768	86.097	25.387	1.00	100.07	F
ATOM	12236	CE	MET	F	512	104.123	85.297	26.972	1.00	100.07	F
ATOM	12237	C	MET	F	512	100.242	82.360	23.699	1.00	34.52	F
ATOM	12238	O	MET	F	512	100.638	82.324	22.542	1.00	34.52	F
ATOM	12239	N	ALA	F	513	99.536	81.399	24.300	1.00	99.70	F
ATOM	12240	CA	ALA	F	513	99.099	80.114	23.737	1.00	99.70	F
ATOM	12241	CB	ALA	F	513	97.557	80.056	23.722	1.00	47.92	F
ATOM	12242	C	ALA	F	513	99.621	79.622	22.394	1.00	99.70	F
ATOM	12243	O	ALA	F	513	99.696	80.364	21.415	1.00	99.70	F
ATOM	12244	N	ALA	F	514	99.953	78.333	22.377	1.00	55.02	F
ATOM	12245	CA	ALA	F	514	100.442	77.631	21.197	1.00	55.02	F
ATOM	12246	CB	ALA	F	514	101.959	77.489	21.244	1.00	57.22	F
ATOM	12247	C	ALA	F	514	99.789	76.258	21.254	1.00	55.02	F
ATOM	12248	O	ALA	F	514	100.477	75.237	21.237	1.00	55.02	F
ATOM	12249	N	ALA	F	515	98.459	76.255	21.349	1.00	100.07	F
ATOM	12250	CA	ALA	F	515	97.653	75.035	21.426	1.00	100.07	F
ATOM	12251	CB	ALA	F	515	98.305	74.023	22.378	1.00	70.16	F
ATOM	12252	C	ALA	F	515	96.233	75.354	21.908	1.00	100.07	F
ATOM	12253	O	ALA	F	515	95.969	75.373	23.115	1.00	100.07	F
ATOM	12254	N	ALA	F	516	95.324	75.599	20.966	1.00	58.93	F
ATOM	12255	CA	ALA	F	516	93.936	75.912	21.300	1.00	58.93	F
ATOM	12256	CB	ALA	F	516	93.247	76.589	20.101	1.00	5.07	F
ATOM	12257	C	ALA	F	516	93.171	74.652	21.729	1.00	58.93	F
ATOM	12258	O	ALA	F	516	93.619	73.525	21.490	1.00	58.93	F
ATOM	12259	N	VAL	F	517	92.014	74.841	22.361	1.00	44.96	F
ATOM	12260	CA	VAL	F	517	91.231	73.709	22.834	1.00	44.96	F
ATOM	12261	CB	VAL	F	517	91.518	73.456	24.331	1.00	100.07	F
ATOM	12262	CG1	VAL	F	517	91.438	71.971	24.626	1.00	100.07	F
ATOM	12263	CG2	VAL	F	517	92.875	74.024	24.716	1.00	100.07	F
ATOM	12264	C	VAL	F	517	89.697	73.777	22.667	1.00	44.96	F
ATOM	12265	O	VAL	F	517	89.036	74.713	23.134	1.00	44.96	F
ATOM	12266	N	PRO	F	518	89.118	72.797	21.959	1.00	66.62	F
ATOM	12267	CD	PRO	F	518	89.811	72.091	20.868	1.00	100.07	F
ATOM	12268	CA	PRO	F	518	87.666	72.745	21.757	1.00	66.62	F
ATOM	12269	CB	PRO	F	518	87.539	72.294	20.306	1.00	100.07	F
ATOM	12270	CG	PRO	F	518	88.672	71.392	20.146	1.00	100.07	F
ATOM	12271	C	PRO	F	518	87.105	71.719	22.748	1.00	66.62	F
ATOM	12272	O	PRO	F	518	87.635	70.611	22.859	1.00	66.62	F
ATOM	12273	N	VAL	F	519	86.052	72.078	23.475	1.00	19.90	F
ATOM	12274	CA	VAL	F	519	85.485	71.153	24.460	1.00	19.90	F
ATOM	12275	CB	VAL	F	519	84.279	71.779	25.175	1.00	65.64	F
ATOM	12276	CG1	VAL	F	519	83.784	70.851	26.269	1.00	65.64	F
ATOM	12277	CG2	VAL	F	519	84.660	73.104	25.744	1.00	65.64	F
ATOM	12278	C	VAL	F	519	85.028	69.842	23.823	1.00	19.90	F
ATOM	12279	O	VAL	F	519	84.744	69.812	22.617	1.00	19.90	F
ATOM	12280	N	LEU	F	520	84.961	68.772	24.624	1.00	49.79	F
ATOM	12281	CA	LEU	F	520	84.498	67.481	24.118	1.00	49.79	F
ATOM	12282	CB	LEU	F	520	84.374	66.454	25.243	1.00	100.07	F
ATOM	12283	CG	LEU	F	520	84.087	65.035	24.730	1.00	100.07	F
ATOM	12284	CD1	LEU	F	520	85.405	64.439	24.244	1.00	100.07	F
ATOM	12285	CD2	LEU	F	520	83.461	64.145	25.811	1.00	100.07	F
ATOM	12286	C	LEU	F	520	83.116	67.803	23.575	1.00	49.79	F
ATOM	12287	O	LEU	F	520	82.388	68.561	24.195	1.00	49.79	F
ATOM	12288	N	PRO	F	521	82.723	67.229	22.428	1.00	35.08	F
ATOM	12289	CD	PRO	F	521	83.381	66.123	21.719	1.00	93.02	F
ATOM	12290	CA	PRO	F	521	81.408	67.507	21.836	1.00	35.08	F
ATOM	12291	CB	PRO	F	521	81.305	66.466	20.719	1.00	93.02	F
ATOM	12292	CG	PRO	F	521	82.201	65.370	21.180	1.00	93.02	F
ATOM	12293	C	PRO	F	521	80.137	67.566	22.710	1.00	35.08	F
ATOM	12294	O	PRO	F	521	79.319	68.480	22.543	1.00	35.08	F
ATOM	12295	N	PRO	F	522	79.950	66.613	23.653	1.00	99.94	F
ATOM	12296	CD	PRO	F	522	80.867	65.541	24.089	1.00	100.07	F
ATOM	12297	CA	PRO	F	522	78.747	66.635	24.503	1.00	99.94	F
ATOM	12298	CB	PRO	F	522	78.891	65.364	25.340	1.00	100.07	F
ATOM	12299	CG	PRO	F	522	80.370	65.234	25.496	1.00	100.07	F
ATOM	12300	C	PRO	F	522	78.613	67.892	25.364	1.00	99.94	F
ATOM	12301	O	PRO	F	522	78.099	67.846	26.482	1.00	99.94	F
ATOM	12302	N	ASP	F	523	79.079	69.009	24.820	1.00	78.45	F
ATOM	12303	CA	ASP	F	523	79.038	70.299	25.485	1.00	78.45	F
ATOM	12304	CB	ASP	F	523	80.421	70.661	26.004	1.00	97.06	F
ATOM	12305	CG	ASP	F	523	80.428	71.963	26.745	1.00	97.06	F
ATOM	12306	OD1	ASP	F	523	79.881	72.948	26.210	1.00	97.06	F
ATOM	12307	OD2	ASP	F	523	80.983	72.003	27.860	1.00	97.06	F
ATOM	12308	C	ASP	F	523	78.577	71.347	24.475	1.00	78.45	F
ATOM	12309	O	ASP	F	523	77.781	72.230	24.852	1.00	78.45	F
ATOM	12310	OT	ASP	F	523	79.029	71.280	23.315	1.00	97.06	F



ATOM	12311	CB	ALA	G	535	72.510	75.095	18.383	1.00100.07	G
ATOM	12312	C	ALA	G	535	73.810	75.656	20.434	1.00100.07	G
ATOM	12313	O	ALA	G	535	74.091	76.725	20.985	1.00100.07	G
ATOM	12314	N	ALA	G	535	71.558	76.614	20.076	1.00100.07	G
ATOM	12315	CA	ALA	G	535	72.415	75.409	19.874	1.00100.07	G
ATOM	12316	N	ALA	G	536	74.672	74.651	20.322	1.00100.07	G
ATOM	12317	CA	ALA	G	536	76.054	74.798	20.757	1.00100.07	G
ATOM	12318	CB	ALA	G	536	76.562	73.506	21.400	1.00 75.75	G
ATOM	12319	C	ALA	G	536	76.746	75.050	19.422	1.00100.07	G
ATOM	12320	O	ALA	G	536	77.817	75.655	19.355	1.00100.07	G
ATOM	12321	N	THR	G	537	76.067	74.595	18.367	1.00 73.01	G
ATOM	12322	CA	THR	G	537	76.497	74.706	16.977	1.00 73.01	G
ATOM	12323	CB	THR	G	537	75.266	74.720	16.022	1.00100.07	G
ATOM	12324	OG1	THR	G	537	74.459	73.557	16.248	1.00100.07	G
ATOM	12325	CG2	THR	G	537	75.712	74.724	14.573	1.00100.07	G
ATOM	12326	C	THR	G	537	77.328	75.954	16.708	1.00 73.01	G
ATOM	12327	O	THR	G	537	78.401	75.874	16.101	1.00 73.01	G
ATOM	12328	N	SER	G	538	76.828	77.100	17.167	1.00 70.80	G
ATOM	12329	CA	SER	G	538	77.498	78.388	16.968	1.00 70.80	G
ATOM	12330	CB	SER	G	538	76.739	79.496	17.715	1.00 70.37	G
ATOM	12331	OG	SER	G	538	77.174	80.789	17.315	1.00 70.37	G
ATOM	12332	C	SER	G	538	78.977	78.415	17.375	1.00 70.80	G
ATOM	12333	O	SER	G	538	79.708	79.334	17.016	1.00 70.80	G
ATOM	12334	N	ASP	G	539	79.421	77.412	18.119	1.00 80.36	G
ATOM	12335	CA	ASP	G	539	80.812	77.361	18.554	1.00 80.36	G
ATOM	12336	CB	ASP	G	539	80.876	76.982	20.042	1.00 79.91	G
ATOM	12337	CG	ASP	G	539	82.293	77.005	20.600	1.00 79.91	G
ATOM	12338	OD1	ASP	G	539	82.833	78.102	20.864	1.00 79.91	G
ATOM	12339	OD2	ASP	G	539	82.869	75.916	20.770	1.00 79.91	G
ATOM	12340	C	ASP	G	539	81.600	76.349	17.725	1.00 80.36	G
ATOM	12341	O	ASP	G	539	82.824	76.292	17.801	1.00 80.36	G
ATOM	12342	N	LEU	G	540	80.886	75.556	16.932	1.00 47.23	G
ATOM	12343	CA	LEU	G	540	81.496	74.526	16.095	1.00 47.23	G
ATOM	12344	CB	LEU	G	540	80.603	73.286	16.041	1.00 72.45	G
ATOM	12345	CG	LEU	G	540	80.626	72.347	17.243	1.00 72.45	G
ATOM	12346	CD1	LEU	G	540	79.481	71.350	17.146	1.00 72.45	G
ATOM	12347	CD2	LEU	G	540	81.972	71.637	17.295	1.00 72.45	G
ATOM	12348	C	LEU	G	540	81.717	75.024	14.686	1.00 47.23	G
ATOM	12349	O	LEU	G	540	82.824	75.432	14.326	1.00 47.23	G
ATOM	12350	N	ASN	G	541	80.654	74.987	13.887	1.00 80.65	G
ATOM	12351	CA	ASN	G	541	80.752	75.438	12.514	1.00 80.65	G
ATOM	12352	CB	ASN	G	541	79.379	75.551	11.860	1.00100.07	G
ATOM	12353	CG	ASN	G	541	79.474	75.926	10.385	1.00100.07	G
ATOM	12354	OD1	ASN	G	541	80.015	75.166	9.572	1.00100.07	G
ATOM	12355	ND2	ASN	G	541	78.960	77.106	10.036	1.00100.07	G
ATOM	12356	C	ASN	G	541	81.403	76.800	12.549	1.00 80.65	G
ATOM	12357	O	ASN	G	541	81.704	77.397	11.513	1.00 80.65	G
ATOM	12358	N	ASP	G	542	81.608	77.292	13.762	1.00 99.61	G
ATOM	12359	CA	ASP	G	542	82.237	78.576	13.960	1.00 99.61	G
ATOM	12360	CB	ASP	G	542	81.293	79.527	14.705	1.00100.07	G
ATOM	12361	CG	ASP	G	542	79.946	79.684	14.013	1.00100.07	G
ATOM	12362	OD1	ASP	G	542	79.930	79.892	12.780	1.00100.07	G
ATOM	12363	OD2	ASP	G	542	78.906	79.613	14.704	1.00100.07	G
ATOM	12364	C	ASP	G	542	83.500	78.396	14.777	1.00 99.61	G
ATOM	12365	O	ASP	G	542	83.602	77.477	15.588	1.00 99.61	G
ATOM	12366	N	LEU	G	543	84.465	79.272	14.531	1.00 96.41	G
ATOM	12367	CA	LEU	G	543	85.714	79.285	15.271	1.00 96.41	G
ATOM	12368	CB	LEU	G	543	85.450	79.884	16.659	1.00 99.66	G
ATOM	12369	CG	LEU	G	543	84.549	81.128	16.673	1.00 99.66	G
ATOM	12370	CD1	LEU	G	543	84.315	81.601	18.092	1.00 99.66	G
ATOM	12371	CD2	LEU	G	543	85.191	82.222	15.852	1.00 99.66	G
ATOM	12372	C	LEU	G	543	86.411	77.935	15.411	1.00 96.41	G
ATOM	12373	O	LEU	G	543	87.488	77.850	15.988	1.00 96.41	G
ATOM	12374	N	TYR	G	544	85.800	76.875	14.910	1.00 98.18	G
ATOM	12375	CA	TYR	G	544	86.427	75.567	14.989	1.00 98.18	G
ATOM	12376	CB	TYR	G	544	85.666	74.657	15.945	1.00 70.00	G
ATOM	12377	CG	TYR	G	544	86.036	74.883	17.394	1.00 70.00	G
ATOM	12378	CD1	TYR	G	544	85.287	74.314	18.424	1.00 70.00	G
ATOM	12379	CE1	TYR	G	544	85.628	74.511	19.759	1.00 70.00	G
ATOM	12380	CD2	TYR	G	544	87.140	75.657	17.739	1.00 70.00	G
ATOM	12381	CE2	TYR	G	544	87.491	75.858	19.072	1.00 70.00	G
ATOM	12382	CZ	TYR	G	544	86.733	75.281	20.075	1.00 70.00	G
ATOM	12383	OH	TYR	G	544	87.100	75.443	21.392	1.00 70.00	G
ATOM	12384	C	TYR	G	544	86.420	75.036	13.579	1.00 98.18	G
ATOM	12385	O	TYR	G	544	87.085	74.055	13.246	1.00 98.18	G
ATOM	12386	N	ARG	G	545	85.639	75.712	12.752	1.00 90.26	G
ATOM	12387	CA	ARG	G	545	85.563	75.403	11.344	1.00 90.26	G
ATOM	12388	CB	ARG	G	545	84.124	75.552	10.841	1.00100.07	G
ATOM	12389	CG	ARG	G	545	83.941	75.377	9.335	1.00100.07	G
ATOM	12390	CD	ARG	G	545	82.605	75.953	8.881	1.00100.07	G
ATOM	12391	NE	ARG	G	545	82.452	75.947	7.427	1.00100.07	G
ATOM	12392	CZ	ARG	G	545	81.434	76.506	6.776	1.00100.07	G
ATOM	12393	NH1	ARG	G	545	80.469	77.122	7.447	1.00100.07	G
ATOM	12394	NH2	ARG	G	545	81.377	76.448	5.451	1.00100.07	G



ATOM	12395	C	ARG	G	545	86.428	76.548	10.839	1.00	90.26	G
ATOM	12396	O	ARG	G	545	87.469	76.342	10.219	1.00	90.26	G
ATOM	12397	N	ARG	G	546	86.002	77.762	11.175	1.00	66.99	G
ATOM	12398	CA	ARG	G	546	86.701	78.979	10.789	1.00	66.99	G
ATOM	12399	CB	ARG	G	546	86.083	80.172	11.515	1.00100.07	G	G
ATOM	12400	CG	ARG	G	546	84.731	80.627	10.984	1.00100.07	G	G
ATOM	12401	CD	ARG	G	546	84.886	81.547	9.777	1.00100.07	G	G
ATOM	12402	NE	ARG	G	546	83.664	82.306	9.512	1.00100.07	G	G
ATOM	12403	CZ	ARG	G	546	83.526	83.185	8.522	1.00100.07	G	G
ATOM	12404	NH1	ARG	G	546	84.539	83.418	7.699	1.00100.07	G	G
ATOM	12405	NH2	ARG	G	546	82.377	83.830	8.352	1.00100.07	G	G
ATOM	12406	C	ARG	G	546	88.191	78.937	11.103	1.00	66.99	G
ATOM	12407	O	ARG	G	546	89.002	79.482	10.351	1.00	66.99	G
ATOM	12408	N	LEU	G	547	88.534	78.292	12.217	1.00	99.98	G
ATOM	12409	CA	LEU	G	547	89.919	78.187	12.681	1.00	99.98	G
ATOM	12410	CB	LEU	G	547	89.953	78.026	14.203	1.00	77.26	G
ATOM	12411	CG	LEU	G	547	91.316	78.113	14.900	1.00	77.26	G
ATOM	12412	CD1	LEU	G	547	91.485	79.512	15.477	1.00	77.26	G
ATOM	12413	CD2	LEU	G	547	91.412	77.077	16.010	1.00	77.26	G
ATOM	12414	C	LEU	G	547	90.736	77.055	12.066	1.00	99.98	G
ATOM	12415	O	LEU	G	547	91.610	77.294	11.231	1.00	99.98	G
ATOM	12416	N	ILE	G	548	90.462	75.825	12.496	1.00	84.49	G
ATOM	12417	CA	ILE	G	548	91.194	74.661	12.006	1.00	84.49	G
ATOM	12418	CB	ILE	G	548	90.434	73.355	12.298	1.00	26.57	G
ATOM	12419	CG2	ILE	G	548	91.328	72.167	12.013	1.00	26.57	G
ATOM	12420	CG1	ILE	G	548	90.011	73.320	13.767	1.00	26.57	G
ATOM	12421	CD	ILE	G	548	91.153	73.574	14.758	1.00	26.57	G
ATOM	12422	C	ILE	G	548	91.521	74.727	10.515	1.00	84.49	G
ATOM	12423	O	ILE	G	548	92.536	74.185	10.077	1.00	84.49	G
ATOM	12424	N	ASN	G	549	90.668	75.386	9.736	1.00100.07	G	G
ATOM	12425	CA	ASN	G	549	90.927	75.522	8.308	1.00100.07	G	G
ATOM	12426	CB	ASN	G	549	89.700	76.076	7.565	1.00	85.42	G
ATOM	12427	CG	ASN	G	549	88.679	74.993	7.217	1.00	85.42	G
ATOM	12428	OD1	ASN	G	549	88.947	73.795	7.352	1.00	85.42	G
ATOM	12429	ND2	ASN	G	549	87.507	75.416	6.753	1.00	85.42	G
ATOM	12430	C	ASN	G	549	92.121	76.453	8.104	1.00100.07	G	G
ATOM	12431	O	ASN	G	549	93.116	76.065	7.496	1.00100.07	G	G
ATOM	12432	N	ARG	G	550	92.027	77.677	8.613	1.00	63.37	G
ATOM	12433	CA	ARG	G	550	93.127	78.621	8.468	1.00	63.37	G
ATOM	12434	CB	ARG	G	550	92.911	79.869	9.326	1.00100.07	G	G
ATOM	12435	CG	ARG	G	550	91.732	80.726	8.911	1.00100.07	G	G
ATOM	12436	CD	ARG	G	550	91.814	81.103	7.445	1.00100.07	G	G
ATOM	12437	NE	ARG	G	550	90.710	81.968	7.039	1.00100.07	G	G
ATOM	12438	CZ	ARG	G	550	90.463	82.319	5.780	1.00100.07	G	G
ATOM	12439	NH1	ARG	G	550	91.246	81.876	4.805	1.00100.07	G	G
ATOM	12440	NH2	ARG	G	550	89.430	83.104	5.492	1.00100.07	G	G
ATOM	12441	C	ARG	G	550	94.422	77.957	8.886	1.00	63.37	G
ATOM	12442	O	ARG	G	550	95.391	77.956	8.129	1.00	63.37	G
ATOM	12443	N	ASN	G	551	94.437	77.388	10.090	1.00	54.49	G
ATOM	12444	CA	ASN	G	551	95.636	76.732	10.585	1.00	54.49	G
ATOM	12445	CB	ASN	G	551	95.339	75.907	11.837	1.00	56.03	G
ATOM	12446	CG	ASN	G	551	96.611	75.448	12.554	1.00	56.03	G
ATOM	12447	OD1	ASN	G	551	97.074	74.321	12.379	1.00	56.03	G
ATOM	12448	ND2	ASN	G	551	97.184	76.334	13.356	1.00	56.03	G
ATOM	12449	C	ASN	G	551	96.162	75.834	9.484	1.00	54.49	G
ATOM	12450	O	ASN	G	551	97.361	75.583	9.393	1.00	54.49	G
ATOM	12451	N	ASN	G	552	95.264	75.354	8.634	1.00	61.89	G
ATOM	12452	CA	ASN	G	552	95.683	74.503	7.535	1.00	61.89	G
ATOM	12453	CB	ASN	G	552	94.642	73.406	7.268	1.00	71.57	G
ATOM	12454	CG	ASN	G	552	94.599	72.354	8.384	1.00	71.57	G
ATOM	12455	OD1	ASN	G	552	95.641	71.842	8.816	1.00	71.57	G
ATOM	12456	ND2	ASN	G	552	93.392	72.024	8.846	1.00	71.57	G
ATOM	12457	C	ASN	G	552	95.943	75.347	6.296	1.00	61.89	G
ATOM	12458	O	ASN	G	552	96.691	74.945	5.410	1.00	61.89	G
ATOM	12459	N	ARG	G	553	95.328	76.524	6.243	1.00	97.47	G
ATOM	12460	CA	ARG	G	553	95.532	77.442	5.130	1.00	97.47	G
ATOM	12461	CB	ARG	G	553	94.731	78.726	5.336	1.00100.07	G	G
ATOM	12462	CG	ARG	G	553	95.118	79.874	4.400	1.00100.07	G	G
ATOM	12463	CD	ARG	G	553	94.516	79.730	2.996	1.00100.07	G	G
ATOM	12464	NE	ARG	G	553	94.684	80.953	2.202	1.00100.07	G	G
ATOM	12465	CZ	ARG	G	553	94.022	81.221	1.077	1.00100.07	G	G
ATOM	12466	NH1	ARG	G	553	93.139	80.351	0.599	1.00100.07	G	G
ATOM	12467	NH2	ARG	G	553	94.232	82.369	0.438	1.00100.07	G	G
ATOM	12468	C	ARG	G	553	97.015	77.772	5.141	1.00	97.47	G
ATOM	12469	O	ARG	G	553	97.572	78.249	4.152	1.00	97.47	G
ATOM	12470	N	LEU	G	554	97.644	77.526	6.284	1.00	69.85	G
ATOM	12471	CA	LEU	G	554	99.071	77.772	6.446	1.00	69.85	G
ATOM	12472	CB	LEU	G	554	99.330	78.679	7.654	1.00	92.56	G
ATOM	12473	CG	LEU	G	554	98.524	79.982	7.705	1.00	92.56	G
ATOM	12474	CD1	LEU	G	554	99.053	80.839	8.847	1.00	92.56	G
ATOM	12475	CD2	LEU	G	554	98.621	80.731	6.380	1.00	92.56	G
ATOM	12476	C	LEU	G	554	99.741	76.424	6.649	1.00	69.85	G
ATOM	12477	O	LEU	G	554	100.948	76.276	6.493	1.00	69.85	G
ATOM	12478	N	LYS	G	555	98.930	75.435	6.993	1.00100.07	G	G



ATOM	12479	CA	LYS	G	555	99.422	74.090	7.211	1.00100.07	G
ATOM	12480	CB	LYS	G	555	98.340	73.270	7.920	1.00100.07	G
ATOM	12481	CG	LYS	G	555	98.785	71.950	8.481	1.00100.07	G
ATOM	12482	CD	LYS	G	555	99.760	72.144	9.615	1.00100.07	G
ATOM	12483	CE	LYS	G	555	100.189	70.804	10.163	1.00100.07	G
ATOM	12484	NZ	LYS	G	555	101.195	70.971	11.227	1.00100.07	G
ATOM	12485	C	LYS	G	555	99.766	73.468	5.851	1.00100.07	G
ATOM	12486	O	LYS	G	555	100.197	72.310	5.781	1.00100.07	G
ATOM	12487	N	LYS	G	556	99.576	74.243	4.777	1.00 67.24	G
ATOM	12488	CA	LYS	G	556	99.856	73.782	3.407	1.00 67.24	G
ATOM	12489	CB	LYS	G	556	98.622	73.118	2.790	1.00100.07	G
ATOM	12490	CG	LYS	G	556	98.145	71.875	3.514	1.00100.07	G
ATOM	12491	CD	LYS	G	556	96.753	71.496	3.047	1.00100.07	G
ATOM	12492	CE	LYS	G	556	96.102	70.495	3.990	1.00100.07	G
ATOM	12493	NZ	LYS	G	556	94.667	70.261	3.637	1.00100.07	G
ATOM	12494	C	LYS	G	556	100.293	74.913	2.492	1.00 67.24	G
ATOM	12495	O	LYS	G	556	100.072	74.861	1.285	1.00 67.24	G
ATOM	12496	N	LEU	G	557	100.890	75.944	3.074	1.00 68.19	G
ATOM	12497	CA	LEU	G	557	101.382	77.089	2.315	1.00 68.19	G
ATOM	12498	CB	LEU	G	557	100.421	78.275	2.423	1.00 44.98	G
ATOM	12499	CG	LEU	G	557	100.486	79.376	1.356	1.00 44.98	G
ATOM	12500	CD1	LEU	G	557	99.658	80.547	1.850	1.00 44.98	G
ATOM	12501	CD2	LEU	G	557	101.913	79.833	1.074	1.00 44.98	G
ATOM	12502	C	LEU	G	557	102.689	77.424	3.005	1.00 68.19	G
ATOM	12503	O	LEU	G	557	103.102	78.580	3.080	1.00 68.19	G
ATOM	12504	N	LEU	G	558	103.317	76.386	3.540	1.00 96.46	G
ATOM	12505	CA	LEU	G	558	104.572	76.542	4.245	1.00 96.46	G
ATOM	12506	CB	LEU	G	558	104.320	76.748	5.740	1.00 99.58	G
ATOM	12507	CG	LEU	G	558	103.493	77.982	6.124	1.00 99.58	G
ATOM	12508	CD1	LEU	G	558	103.404	78.042	7.637	1.00 99.58	G
ATOM	12509	CD2	LEU	G	558	104.118	79.263	5.573	1.00 99.58	G
ATOM	12510	C	LEU	G	558	105.440	75.323	4.009	1.00 96.46	G
ATOM	12511	O	LEU	G	558	106.664	75.435	3.947	1.00 96.46	G
ATOM	12512	N	ALA	G	559	104.824	74.151	3.894	1.00 99.94	G
ATOM	12513	CA	ALA	G	559	105.618	72.971	3.596	1.00 99.94	G
ATOM	12514	CB	ALA	G	559	104.801	71.690	3.766	1.00 27.45	G
ATOM	12515	C	ALA	G	559	105.958	73.229	2.125	1.00 99.94	G
ATOM	12516	O	ALA	G	559	106.787	72.535	1.525	1.00 99.94	G
ATOM	12517	N	GLN	G	560	105.299	74.257	1.569	1.00100.07	G
ATOM	12518	CA	GLN	G	560	105.504	74.711	0.188	1.00100.07	G
ATOM	12519	CB	GLN	G	560	104.169	74.957	-0.538	1.00 92.79	G
ATOM	12520	CG	GLN	G	560	104.093	76.349	-1.215	1.00 92.79	G
ATOM	12521	CD	GLN	G	560	103.080	76.450	-2.355	1.00 92.79	G
ATOM	12522	OE1	GLN	G	560	101.893	76.159	-2.186	1.00 92.79	G
ATOM	12523	NE2	GLN	G	560	103.550	76.884	-3.522	1.00 92.79	G
ATOM	12524	C	GLN	G	560	106.288	76.025	0.203	1.00100.07	G
ATOM	12525	O	GLN	G	560	106.227	76.781	1.178	1.00100.07	G
ATOM	12526	N	GLY	G	561	107.002	76.289	-0.892	1.00100.07	G
ATOM	12527	CA	GLY	G	561	107.791	77.503	-1.022	1.00100.07	G
ATOM	12528	C	GLY	G	561	107.257	78.611	-0.146	1.00100.07	G
ATOM	12529	O	GLY	G	561	107.978	79.154	0.689	1.00100.07	G
ATOM	12530	N	ALA	G	562	105.986	78.943	-0.339	1.00 70.43	G
ATOM	12531	CA	ALA	G	562	105.346	79.972	0.462	1.00 70.43	G
ATOM	12532	CB	ALA	G	562	105.333	79.534	1.915	1.00100.07	G
ATOM	12533	C	ALA	G	562	106.011	81.347	0.329	1.00 70.43	G
ATOM	12534	O	ALA	G	562	107.090	81.598	0.874	1.00 70.43	G
ATOM	12535	N	PRO	G	563	105.359	82.261	-0.400	1.00 66.56	G
ATOM	12536	CD	PRO	G	563	104.173	81.972	-1.231	1.00 41.79	G
ATOM	12537	CA	PRO	G	563	105.848	83.625	-0.631	1.00 66.56	G
ATOM	12538	CB	PRO	G	563	105.104	84.038	-1.897	1.00 41.79	G
ATOM	12539	CG	PRO	G	563	103.780	83.350	-1.732	1.00 41.79	G
ATOM	12540	C	PRO	G	563	105.588	84.588	0.530	1.00 66.56	G
ATOM	12541	O	PRO	G	563	104.591	85.300	0.523	1.00 66.56	G
ATOM	12542	N	GLU	G	564	106.500	84.615	1.501	1.00 94.32	G
ATOM	12543	CA	GLU	G	564	106.404	85.470	2.701	1.00 94.32	G
ATOM	12544	CB	GLU	G	564	107.634	86.382	2.822	1.00100.07	G
ATOM	12545	CG	GLU	G	564	108.948	85.655	3.090	1.00100.07	G
ATOM	12546	CD	GLU	G	564	109.908	86.473	3.943	1.00100.07	G
ATOM	12547	OE1	GLU	G	564	109.761	86.466	5.186	1.00100.07	G
ATOM	12548	OE2	GLU	G	564	110.801	87.131	3.369	1.00100.07	G
ATOM	12549	C	GLU	G	564	105.155	86.333	2.886	1.00 94.32	G
ATOM	12550	O	GLU	G	564	104.384	86.103	3.812	1.00 94.32	G
ATOM	12551	N	ILE	G	565	104.974	87.335	2.026	1.00 62.48	G
ATOM	12552	CA	ILE	G	565	103.822	88.240	2.102	1.00 62.48	G
ATOM	12553	CB	ILE	G	565	103.733	89.144	0.852	1.00100.07	G
ATOM	12554	CG2	ILE	G	565	102.698	90.232	1.081	1.00100.07	G
ATOM	12555	CG1	ILE	G	565	105.093	89.794	0.571	1.00100.07	G
ATOM	12556	CD	ILE	G	565	105.185	90.494	-0.776	1.00100.07	G
ATOM	12557	C	ILE	G	565	102.510	87.471	2.251	1.00 62.48	G
ATOM	12558	O	ILE	G	565	101.711	87.779	3.130	1.00 62.48	G
ATOM	12559	N	ILE	G	566	102.283	86.482	1.388	1.00100.07	G
ATOM	12560	CA	ILE	G	566	101.081	85.651	1.469	1.00100.07	G
ATOM	12561	CB	ILE	G	566	100.667	85.111	0.058	1.00 96.39	G
ATOM	12562	CG2	ILE	G	566	99.762	83.893	0.174	1.00 96.39	G



ATOM	12563	CG1	ILE	G	566	99.919	86.204	-0.712	1.00	96.39	G
ATOM	12564	CD	ILE	G	566	98.630	86.663	-0.042	1.00	96.39	G
ATOM	12565	C	ILE	G	566	101.403	84.513	2.452	1.00	100.07	G
ATOM	12566	O	ILE	G	566	101.402	83.324	2.119	1.00	100.07	G
ATOM	12567	N	ILE	G	567	101.705	84.938	3.675	1.00	97.69	G
ATOM	12568	CA	ILE	G	567	102.050	84.093	4.815	1.00	97.69	G
ATOM	12569	CB	ILE	G	567	103.515	83.605	4.759	1.00	60.58	G
ATOM	12570	CG2	ILE	G	567	103.941	83.066	6.111	1.00	60.58	G
ATOM	12571	CG1	ILE	G	567	103.670	82.534	3.689	1.00	60.58	G
ATOM	12572	CD	ILE	G	567	105.087	82.344	3.278	1.00	60.58	G
ATOM	12573	C	ILE	G	567	101.926	85.091	5.947	1.00	97.69	G
ATOM	12574	O	ILE	G	567	101.336	84.810	6.980	1.00	97.69	G
ATOM	12575	N	ARG	G	568	102.501	86.269	5.726	1.00	100.07	G
ATOM	12576	CA	ARG	G	568	102.435	87.347	6.700	1.00	100.07	G
ATOM	12577	CB	ARG	G	568	103.088	88.635	6.172	1.00	100.07	G
ATOM	12578	CG	ARG	G	568	104.444	88.988	6.776	1.00	100.07	G
ATOM	12579	CD	ARG	G	568	104.879	90.378	6.346	1.00	100.07	G
ATOM	12580	NE	ARG	G	568	106.333	90.492	6.304	1.00	100.07	G
ATOM	12581	CZ	ARG	G	568	106.988	91.553	5.841	1.00	100.07	G
ATOM	12582	NH1	ARG	G	568	106.322	92.605	5.381	1.00	100.07	G
ATOM	12583	NH2	ARG	G	568	108.314	91.559	5.819	1.00	100.07	G
ATOM	12584	C	ARG	G	568	100.960	87.608	6.877	1.00	100.07	G
ATOM	12585	O	ARG	G	568	100.307	86.994	7.721	1.00	100.07	G
ATOM	12586	N	ASN	G	569	100.437	88.508	6.049	1.00	100.07	G
ATOM	12587	CA	ASN	G	569	99.036	88.870	6.118	1.00	100.07	G
ATOM	12588	CB	ASN	G	569	98.723	89.966	5.101	1.00	69.10	G
ATOM	12589	CG	ASN	G	569	98.361	89.417	3.759	1.00	69.10	G
ATOM	12590	OD1	ASN	G	569	99.066	88.577	3.210	1.00	69.10	G
ATOM	12591	ND2	ASN	G	569	97.254	89.890	3.211	1.00	69.10	G
ATOM	12592	C	ASN	G	569	98.159	87.645	5.886	1.00	100.07	G
ATOM	12593	O	ASN	G	569	96.951	87.693	6.122	1.00	100.07	G
ATOM	12594	N	GLU	G	570	98.768	86.548	5.432	1.00	58.80	G
ATOM	12595	CA	GLU	G	570	98.029	85.307	5.209	1.00	58.80	G
ATOM	12596	CB	GLU	G	570	98.686	84.478	4.108	1.00	99.33	G
ATOM	12597	CG	GLU	G	570	98.009	84.644	2.754	1.00	99.33	G
ATOM	12598	CD	GLU	G	570	96.751	83.805	2.623	1.00	99.33	G
ATOM	12599	OE1	GLU	G	570	95.973	83.751	3.599	1.00	99.33	G
ATOM	12600	OE2	GLU	G	570	96.539	83.207	1.543	1.00	99.33	G
ATOM	12601	C	GLU	G	570	97.949	84.502	6.503	1.00	58.80	G
ATOM	12602	O	GLU	G	570	97.381	83.411	6.534	1.00	58.80	G
ATOM	12603	N	LYS	G	571	98.536	85.060	7.563	1.00	100.07	G
ATOM	12604	CA	LYS	G	571	98.534	84.467	8.903	1.00	100.07	G
ATOM	12605	CB	LYS	G	571	99.955	84.321	9.463	1.00	99.54	G
ATOM	12606	CG	LYS	G	571	99.999	83.812	10.899	1.00	99.54	G
ATOM	12607	CD	LYS	G	571	101.396	83.904	11.500	1.00	99.54	G
ATOM	12608	CE	LYS	G	571	101.358	83.672	13.014	1.00	99.54	G
ATOM	12609	NZ	LYS	G	571	102.687	83.790	13.692	1.00	99.54	G
ATOM	12610	C	LYS	G	571	97.771	85.453	9.761	1.00	100.07	G
ATOM	12611	O	LYS	G	571	97.320	85.129	10.859	1.00	100.07	G
ATOM	12612	N	ARG	G	572	97.658	86.675	9.249	1.00	69.60	G
ATOM	12613	CA	ARG	G	572	96.922	87.717	9.933	1.00	69.60	G
ATOM	12614	CB	ARG	G	572	96.559	88.849	8.974	1.00	99.49	G
ATOM	12615	CG	ARG	G	572	95.402	89.698	9.487	1.00	99.49	G
ATOM	12616	CD	ARG	G	572	94.596	90.375	8.370	1.00	99.49	G
ATOM	12617	NE	ARG	G	572	93.357	90.966	8.888	1.00	99.49	G
ATOM	12618	CZ	ARG	G	572	92.505	91.698	8.174	1.00	99.49	G
ATOM	12619	NH1	ARG	G	572	92.741	91.949	6.893	1.00	99.49	G
ATOM	12620	NH2	ARG	G	572	91.411	92.181	8.745	1.00	99.49	G
ATOM	12621	C	ARG	G	572	95.644	87.034	10.361	1.00	69.60	G
ATOM	12622	O	ARG	G	572	95.180	87.188	11.495	1.00	69.60	G
ATOM	12623	N	MET	G	573	95.091	86.265	9.426	1.00	100.07	G
ATOM	12624	CA	MET	G	573	93.855	85.535	9.645	1.00	100.07	G
ATOM	12625	CB	MET	G	573	93.361	84.937	8.321	1.00	100.07	G
ATOM	12626	CG	MET	G	573	94.473	84.422	7.425	1.00	100.07	G
ATOM	12627	SD	MET	G	573	93.965	83.087	6.310	1.00	100.07	G
ATOM	12628	CE	MET	G	573	94.860	81.678	7.053	1.00	100.07	G
ATOM	12629	C	MET	G	573	93.918	84.443	10.722	1.00	100.07	G
ATOM	12630	O	MET	G	573	92.951	84.277	11.468	1.00	100.07	G
ATOM	12631	N	LEU	G	574	95.027	83.707	10.828	1.00	92.74	G
ATOM	12632	CA	LEU	G	574	95.091	82.650	11.840	1.00	92.74	G
ATOM	12633	CB	LEU	G	574	96.466	81.996	11.927	1.00	61.13	G
ATOM	12634	CG	LEU	G	574	96.448	81.011	13.106	1.00	61.13	G
ATOM	12635	CD1	LEU	G	574	95.320	80.038	12.928	1.00	61.13	G
ATOM	12636	CD2	LEU	G	574	97.731	80.264	13.193	1.00	61.13	G
ATOM	12637	C	LEU	G	574	94.733	83.152	13.222	1.00	92.74	G
ATOM	12638	O	LEU	G	574	93.666	82.831	13.746	1.00	92.74	G
ATOM	12639	N	GLN	G	575	95.636	83.918	13.827	1.00	100.07	G
ATOM	12640	CA	GLN	G	575	95.364	84.459	15.151	1.00	100.07	G
ATOM	12641	CB	GLN	G	575	96.471	85.414	15.598	1.00	98.80	G
ATOM	12642	CG	GLN	G	575	96.193	86.034	16.945	1.00	98.80	G
ATOM	12643	CD	GLN	G	575	97.410	86.057	17.823	1.00	98.80	G
ATOM	12644	OE1	GLN	G	575	98.116	85.063	17.937	1.00	98.80	G
ATOM	12645	NE2	GLN	G	575	97.659	87.184	18.464	1.00	98.80	G
ATOM	12646	C	GLN	G	575	94.038	85.205	15.094	1.00	100.07	G



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ATOM	12647	O	GLN	G	575	93.219	85.100	16.011	1.00100.07	G
ATOM	12648	N	GLU	G	576	93.834	85.956	14.009	1.00 53.26	G
ATOM	12649	CA	GLU	G	576	92.600	86.694	13.831	1.00 53.26	G
ATOM	12650	CB	GLU	G	576	92.437	87.116	12.372	1.00 89.35	G
ATOM	12651	CG	GLU	G	576	91.068	87.670	12.025	1.00 89.35	G
ATOM	12652	CD	GLU	G	576	90.582	88.707	13.019	1.00 89.35	G
ATOM	12653	OE1	GLU	G	576	91.385	89.602	13.368	1.00 89.35	G
ATOM	12654	OE2	GLU	G	576	89.399	88.630	13.443	1.00 89.35	G
ATOM	12655	C	GLU	G	576	91.520	85.711	14.241	1.00 53.26	G
ATOM	12656	O	GLU	G	576	90.693	85.998	15.104	1.00 53.26	G
ATOM	12657	N	ALA	G	577	91.559	84.527	13.651	1.00 83.08	G
ATOM	12658	CA	ALA	G	577	90.586	83.509	13.984	1.00 83.08	G
ATOM	12659	CB	ALA	G	577	90.836	82.258	13.163	1.00 89.31	G
ATOM	12660	C	ALA	G	577	90.649	83.184	15.477	1.00 83.08	G
ATOM	12661	O	ALA	G	577	89.638	83.281	16.168	1.00 83.08	G
ATOM	12662	N	VAL	G	578	91.831	82.820	15.980	1.00 49.06	G
ATOM	12663	CA	VAL	G	578	91.979	82.460	17.396	1.00 49.06	G
ATOM	12664	CB	VAL	G	578	93.428	82.178	17.762	1.00 94.26	G
ATOM	12665	CG1	VAL	G	578	93.482	81.450	19.106	1.00 94.26	G
ATOM	12666	CG2	VAL	G	578	94.087	81.373	16.660	1.00 94.26	G
ATOM	12667	C	VAL	G	578	91.468	83.528	18.350	1.00 49.06	G
ATOM	12668	O	VAL	G	578	90.684	83.244	19.263	1.00 49.06	G
ATOM	12669	N	ASP	G	579	91.942	84.753	18.159	1.00 68.63	G
ATOM	12670	CA	ASP	G	579	91.483	85.843	18.993	1.00 68.63	G
ATOM	12671	CB	ASP	G	579	92.306	87.110	18.765	1.00100.07	G
ATOM	12672	CG	ASP	G	579	93.656	87.057	19.457	1.00100.07	G
ATOM	12673	OD1	ASP	G	579	93.702	86.659	20.649	1.00100.07	G
ATOM	12674	OD2	ASP	G	579	94.664	87.422	18.810	1.00100.07	G
ATOM	12675	C	ASP	G	579	90.058	86.056	18.547	1.00 68.63	G
ATOM	12676	O	ASP	G	579	89.722	87.088	17.955	1.00 68.63	G
ATOM	12677	N	ALA	G	580	89.244	85.037	18.818	1.00 74.70	G
ATOM	12678	CA	ALA	G	580	87.834	85.019	18.475	1.00 74.70	G
ATOM	12679	CB	ALA	G	580	87.660	84.922	16.968	1.00 87.10	G
ATOM	12680	C	ALA	G	580	87.188	83.826	19.162	1.00 74.70	G
ATOM	12681	O	ALA	G	580	86.262	83.990	19.956	1.00 74.70	G
ATOM	12682	N	VAL	G	581	87.680	82.627	18.859	1.00 85.22	G
ATOM	12683	CA	VAL	G	581	87.150	81.414	19.475	1.00 85.22	G
ATOM	12684	CB	VAL	G	581	88.129	80.242	19.364	1.00 54.15	G
ATOM	12685	CG1	VAL	G	581	87.590	79.034	20.093	1.00 54.15	G
ATOM	12686	CG2	VAL	G	581	88.348	79.903	17.925	1.00 54.15	G
ATOM	12687	C	VAL	G	581	86.960	81.724	20.941	1.00 85.22	G
ATOM	12688	O	VAL	G	581	86.075	81.183	21.601	1.00 85.22	G
ATOM	12689	N	ILE	G	582	87.813	82.609	21.439	1.00 66.09	G
ATOM	12690	CA	ILE	G	582	87.750	83.036	22.820	1.00 66.09	G
ATOM	12691	CB	ILE	G	582	89.108	83.595	23.265	1.00 99.33	G
ATOM	12692	CG2	ILE	G	582	89.185	83.647	24.779	1.00 99.33	G
ATOM	12693	CG1	ILE	G	582	90.220	82.681	22.747	1.00 99.33	G
ATOM	12694	CD	ILE	G	582	91.611	83.202	22.993	1.00 99.33	G
ATOM	12695	C	ILE	G	582	86.670	84.113	22.884	1.00 66.09	G
ATOM	12696	O	ILE	G	582	85.622	83.985	22.248	1.00 66.09	G
ATOM	12697	N	ASP	G	583	86.922	85.178	23.629	1.00100.07	G
ATOM	12698	CA	ASP	G	583	85.936	86.238	23.760	1.00100.07	G
ATOM	12699	CB	ASP	G	583	86.386	87.247	24.813	1.00 83.18	G
ATOM	12700	CG	ASP	G	583	86.599	86.601	26.153	1.00 83.18	G
ATOM	12701	OD1	ASP	G	583	85.704	85.824	26.545	1.00 83.18	G
ATOM	12702	OD2	ASP	G	583	87.642	86.858	26.803	1.00 83.18	G
ATOM	12703	C	ASP	G	583	85.618	86.949	22.460	1.00100.07	G
ATOM	12704	O	ASP	G	583	85.399	88.158	22.457	1.00100.07	G
ATOM	12705	N	ASN	G	584	85.603	86.185	21.370	1.00 30.51	G
ATOM	12706	CA	ASN	G	584	85.278	86.683	20.041	1.00 30.51	G
ATOM	12707	CB	ASN	G	584	84.303	85.708	19.391	1.00 69.42	G
ATOM	12708	CG	ASN	G	584	84.042	86.020	17.943	1.00 69.42	G
ATOM	12709	OD1	ASN	G	584	83.782	87.167	17.576	1.00 69.42	G
ATOM	12710	ND2	ASN	G	584	84.095	84.993	17.104	1.00 69.42	G
ATOM	12711	C	ASN	G	584	84.633	88.068	20.099	1.00 30.51	G
ATOM	12712	O	ASN	G	584	83.430	88.203	19.863	1.00 30.51	G
ATOM	12713	N	GLY	G	585	85.425	89.097	20.396	1.00100.07	G
ATOM	12714	CA	GLY	G	585	84.870	90.437	20.510	1.00100.07	G
ATOM	12715	C	GLY	G	585	85.441	91.513	19.609	1.00100.07	G
ATOM	12716	O	GLY	G	585	86.646	91.556	19.369	1.00100.07	G
ATOM	12717	N	ARG	G	586	84.558	92.389	19.126	1.00100.07	G
ATOM	12718	CA	ARG	G	586	84.910	93.499	18.235	1.00100.07	G
ATOM	12719	CB	ARG	G	586	86.133	94.256	18.779	1.00 99.49	G
ATOM	12720	CG	ARG	G	586	85.906	94.938	20.145	1.00 99.49	G
ATOM	12721	CD	ARG	G	586	87.091	95.843	20.536	1.00 99.49	G
ATOM	12722	NE	ARG	G	586	86.937	96.473	21.851	1.00 99.49	G
ATOM	12723	CZ	ARG	G	586	87.779	97.373	22.358	1.00 99.49	G
ATOM	12724	NH1	ARG	G	586	88.848	97.764	21.672	1.00 99.49	G
ATOM	12725	NH2	ARG	G	586	87.546	97.891	23.555	1.00 99.49	G
ATOM	12726	C	ARG	G	586	85.144	93.044	16.782	1.00100.07	G
ATOM	12727	O	ARG	G	586	85.863	92.077	16.526	1.00100.07	G
ATOM	12728	N	ARG	G	587	84.538	93.770	15.842	1.00 78.77	G
ATOM	12729	CA	ARG	G	587	84.601	93.455	14.418	1.00 78.77	G
ATOM	12730	CB	ARG	G	587	86.039	93.249	13.931	1.00100.07	G



ATOM	12731	CG	ARG	G	587	86.090	92.980	12.427	1.00100.07	
ATOM	12732	CD	ARG	G	587	87.409	92.388	11.909	1.00100.07	G
ATOM	12733	NE	ARG	G	587	87.307	92.078	10.475	1.00100.07	G
ATOM	12734	CZ	ARG	G	587	88.275	91.540	9.730	1.00100.07	G
ATOM	12735	NH1	ARG	G	587	89.449	91.238	10.272	1.00100.07	G
ATOM	12736	NH2	ARG	G	587	88.069	91.303	8.437	1.00100.07	G
ATOM	12737	C	ARG	G	587	83.821	92.159	14.227	1.00 78.77	G
ATOM	12738	O	ARG	G	587	84.336	91.200	13.658	1.00 78.77	G
ATOM	12739	N	GLY	G	588	82.585	92.143	14.727	1.00 79.03	G
ATOM	12740	CA	GLY	G	588	81.720	90.974	14.641	1.00 79.03	G
ATOM	12741	C	GLY	G	588	82.142	89.901	13.655	1.00 79.03	G
ATOM	12742	O	GLY	G	588	82.416	90.184	12.490	1.00 79.03	G
ATOM	12743	N	SER	G	589	82.200	88.661	14.118	1.00 75.86	G
ATOM	12744	CA	SER	G	589	82.588	87.554	13.254	1.00 75.86	G
ATOM	12745	CB	SER	G	589	83.758	86.792	13.867	1.00 61.57	G
ATOM	12746	OG	SER	G	589	83.412	86.293	15.146	1.00 61.57	G
ATOM	12747	C	SER	G	589	81.395	86.624	13.092	1.00 75.86	G
ATOM	12748	O	SER	G	589	81.317	85.571	13.725	1.00 75.86	G
ATOM	12749	N	PRO	G	590	80.449	87.003	12.226	1.00 67.14	G
ATOM	12750	CD	PRO	G	590	80.461	88.258	11.453	1.00 93.37	G
ATOM	12751	CA	PRO	G	590	79.231	86.237	11.952	1.00 67.14	G
ATOM	12752	CB	PRO	G	590	78.313	87.298	11.369	1.00 93.37	G
ATOM	12753	CG	PRO	G	590	79.275	88.084	10.525	1.00 93.37	G
ATOM	12754	C	PRO	G	590	79.368	85.033	11.015	1.00 67.14	G
ATOM	12755	O	PRO	G	590	80.178	84.129	11.230	1.00 67.14	G
ATOM	12756	N	VAL	G	591	78.527	85.047	9.986	1.00 87.84	G
ATOM	12757	CA	VAL	G	591	78.463	84.026	8.951	1.00 87.84	G
ATOM	12758	CB	VAL	G	591	77.511	82.878	9.365	1.00 38.71	G
ATOM	12759	CG1	VAL	G	591	77.480	81.809	8.305	1.00 38.71	G
ATOM	12760	CG2	VAL	G	591	77.965	82.276	10.656	1.00 38.71	G
ATOM	12761	C	VAL	G	591	77.894	84.777	7.740	1.00 87.84	G
ATOM	12762	O	VAL	G	591	77.555	85.956	7.862	1.00 87.84	G
ATOM	12763	N	THR	G	592	77.788	84.105	6.591	1.00100.07	G
ATOM	12764	CA	THR	G	592	77.278	84.697	5.339	1.00100.07	G
ATOM	12765	CB	THR	G	592	75.727	84.452	5.146	1.00 89.62	G
ATOM	12766	OG1	THR	G	592	74.992	84.963	6.263	1.00 89.62	G
ATOM	12767	CG2	THR	G	592	75.434	82.964	4.993	1.00 89.62	G
ATOM	12768	C	THR	G	592	77.579	86.196	5.132	1.00100.07	G
ATOM	12769	O	THR	G	592	76.686	86.979	4.771	1.00100.07	G
ATOM	12770	N	ASN	G	593	78.844	86.575	5.346	1.00100.07	G
ATOM	12771	CA	ASN	G	593	79.310	87.962	5.184	1.00100.07	G
ATOM	12772	CB	ASN	G	593	80.836	88.049	5.409	1.00100.07	G
ATOM										



ATOM	12815	N	PRO	G	599	76.155	87.703	15.007	1.00	67.92	G
ATOM	12816	CD	PRO	G	599	75.980	88.937	15.790	1.00	56.78	G
ATOM	12817	CA	PRO	G	599	77.428	87.058	15.353	1.00	67.92	G
ATOM	12818	CB	PRO	G	599	78.015	87.999	16.407	1.00	56.78	G
ATOM	12819	CG	PRO	G	599	76.804	88.645	17.004	1.00	56.78	G
ATOM	12820	C	PRO	G	599	77.312	85.611	15.846	1.00	67.92	G
ATOM	12821	O	PRO	G	599	76.225	85.029	15.828	1.00	67.92	G
ATOM	12822	N	LEU	G	600	78.434	85.040	16.290	1.00	33.54	G
ATOM	12823	CA	LEU	G	600	78.468	83.655	16.759	1.00	33.54	G
ATOM	12824	CB	LEU	G	600	79.523	82.885	15.969	1.00	50.34	G
ATOM	12825	CG	LEU	G	600	79.547	83.272	14.489	1.00	50.34	G
ATOM	12826	CD1	LEU	G	600	80.734	82.640	13.780	1.00	50.34	G
ATOM	12827	CD2	LEU	G	600	78.242	82.856	13.857	1.00	50.34	G
ATOM	12828	C	LEU	G	600	78.766	83.555	18.250	1.00	33.54	G
ATOM	12829	O	LEU	G	600	79.576	84.315	18.790	1.00	33.54	G
ATOM	12830	N	ARG	G	601	78.110	82.599	18.905	1.00	99.93	G
ATOM	12831	CA	ARG	G	601	78.256	82.365	20.345	1.00	99.93	G
ATOM	12832	CB	ARG	G	601	77.073	81.516	20.834	1.00100.07	G	
ATOM	12833	CG	ARG	G	601	75.721	82.173	20.517	1.00100.07	G	
ATOM	12834	CD	ARG	G	601	74.510	81.448	21.106	1.00100.07	G	
ATOM	12835	NE	ARG	G	601	73.274	82.207	20.883	1.00100.07	G	
ATOM	12836	CZ	ARG	G	601	72.044	81.744	21.106	1.00100.07	G	
ATOM	12837	NH1	ARG	G	501	71.855	80.511	21.563	1.00100.07	G	
ATOM	12838	NH2	ARG	G	601	70.997	82.519	20.867	1.00100.07	G	
ATOM	12839	C	ARG	G	601	79.594	81.707	20.697	1.00	99.93	G
ATOM	12840	O	ARG	G	601	79.704	80.485	20.775	1.00	99.93	G
ATOM	12841	N	SER	G	602	80.600	82.539	20.935	1.00	61.69	G
ATOM	12842	CA	SER	G	602	81.942	82.065	21.235	1.00	61.69	G
ATOM	12843	CB	SER	G	602	82.966	83.116	20.794	1.00	99.19	G
ATOM	12844	CG	SER	G	602	82.786	84.339	21.488	1.00	99.19	G
ATOM	12845	C	SER	G	602	82.228	81.686	22.680	1.00	61.69	G
ATOM	12846	O	SER	G	602	81.469	82.028	23.591	1.00	61.69	G
ATOM	12847	N	LEU	G	603	83.348	80.983	22.870	1.00	56.92	G
ATOM	12848	CA	LEU	G	603	83.795	80.551	24.191	1.00	56.92	G
ATOM	12849	CB	LEU	G	603	85.145	79.848	24.119	1.00	93.55	G
ATOM	12850	CG	LEU	G	603	85.285	78.699	23.133	1.00	93.55	G
ATOM	12851	CD1	LEU	G	603	86.633	78.018	23.356	1.00	93.55	G
ATOM	12852	CD2	LEU	G	603	84.145	77.721	23.327	1.00	93.55	G
ATOM	12853	C	LEU	G	603	83.952	81.766	25.068	1.00	56.92	G
ATOM	12854	O	LEU	G	603	84.806	82.621	24.822	1.00	56.92	G
ATOM	12855	N	THR	G							



ATOM	12899	CG	LYS	G	610	74.583	87.986	27.951	1.00100.07	G
ATOM	12900	CD	LYS	G	610	73.938	87.997	26.574	1.00100.07	G
ATOM	12901	CE	LYS	G	610	74.635	88.981	25.643	1.00100.07	G
ATOM	12902	NZ	LYS	G	610	74.195	88.837	24.221	1.00100.07	G
ATOM	12903	C	LYS	G	610	74.595	85.177	30.636	1.00100.07	G
ATOM	12904	O	LYS	G	610	75.364	84.488	31.306	1.00100.07	G
ATOM	12905	N	GLN	G	611	73.292	84.913	30.492	1.00 54.57	G
ATOM	12906	CA	GLN	G	611	72.633	83.749	31.091	1.00 54.57	G
ATOM	12907	CB	GLN	G	611	71.281	83.493	30.403	1.00100.07	G
ATOM	12908	CG	GLN	G	611	70.109	84.395	30.833	1.00100.07	G
ATOM	12909	CD	GLN	G	611	68.775	84.030	30.135	1.00100.07	G
ATOM	12910	OE1	GLN	G	611	68.389	82.852	30.066	1.00100.07	G
ATOM	12911	NE2	GLN	G	611	68.068	85.046	29.630	1.00100.07	G
ATOM	12912	C	GLN	G	611	73.497	82.493	30.950	1.00 54.57	G
ATOM	12913	O	GLN	G	611	73.199	81.624	30.143	1.00 54.57	G
ATOM	12914	N	GLY	G	612	74.563	82.384	31.734	1.00 79.93	G
ATOM	12915	CA	GLY	G	612	75.406	81.212	31.617	1.00 79.93	G
ATOM	12916	C	GLY	G	612	76.576	81.115	32.575	1.00 79.93	G
ATOM	12917	O	GLY	G	612	76.977	82.086	33.224	1.00 79.93	G
ATOM	12918	N	ALA	G	613	77.120	79.906	32.652	1.00100.07	G
ATOM	12919	CA	ALA	G	613	78.257	79.598	33.502	1.00100.07	G
ATOM	12920	CB	ALA	G	613	79.524	80.187	32.898	1.00100.07	G
ATOM	12921	C	ALA	G	613	78.088	80.076	34.938	1.00100.07	G
ATOM	12922	O	ALA	G	613	77.578	79.344	35.787	1.00100.07	G
ATOM	12923	N	PHE	G	614	78.507	81.305	35.212	1.00 68.46	G
ATOM	12924	CA	PHE	G	614	78.421	81.825	36.566	1.00 68.46	G
ATOM	12925	CB	PHE	G	614	79.486	82.911	36.783	1.00 49.59	G
ATOM	12926	CG	PHE	G	614	80.898	82.426	36.598	1.00 49.59	G
ATOM	12927	CD1	PHE	G	614	81.682	82.912	35.556	1.00 49.59	G
ATOM	12928	CD2	PHE	G	614	81.421	81.450	37.432	1.00 49.59	G
ATOM	12929	CE1	PHE	G	614	82.963	82.429	35.342	1.00 49.59	G
ATOM	12930	CE2	PHE	G	614	82.698	80.958	37.231	1.00 49.59	G
ATOM	12931	CZ	PHE	G	514	83.473	81.446	36.181	1.00 49.59	G
ATOM	12932	C	PHE	G	614	77.051	82.361	36.971	1.00 68.46	G
ATOM	12933	O	PHE	G	614	76.956	83.193	37.874	1.00 68.46	G
ATOM	12934	N	ARG	G	615	75.987	81.891	36.325	1.00 38.15	G
ATOM	12935	CA	ARG	G	615	74.654	82.366	36.684	1.00 38.15	G
ATOM	12936	CB	ARG	G	615	74.219	83.507	35.768	1.00 68.40	G
ATOM	12937	CG	ARG	G	615	75.299	84.538	35.494	1.00 68.40	G
ATOM	12938	CD	ARG	G	615	74.687	85.884	35.161	1.00 68.40	G
ATOM	12939	NE	ARG	G	615	75.519	86.690	34.277	1.00 68.40	G
ATOM	12940	CZ	ARG	G	615	75.282	87.967			



ATOM	12983	CA	LYS	G	621	65.844	76.429	36.169	1.00	72.90	G
ATOM	12984	CB	LYS	G	621	66.924	75.690	36.958	1.00	46.06	G
ATOM	12985	CG	LYS	G	621	68.324	75.911	36.404	1.00	46.06	G
ATOM	12986	CD	LYS	G	621	69.330	74.976	37.067	1.00	46.06	G
ATOM	12987	CE	LYS	G	621	70.722	75.151	36.490	1.00	46.06	G
ATOM	12988	NZ	LYS	G	621	71.698	74.369	37.268	1.00	46.06	G
ATOM	12989	C	LYS	G	621	64.526	75.652	36.235	1.00	72.90	G
ATOM	12990	O	LYS	G	621	63.762	75.803	37.184	1.00	72.90	G
ATOM	12991	N	ARG	G	522	64.261	74.829	35.226	1.00	28.55	G
ATOM	12992	CA	ARG	G	622	63.023	74.059	35.150	1.00	28.55	G
ATOM	12993	CB	ARG	G	622	62.770	73.590	33.711	1.00	99.38	G
ATOM	12994	CG	ARG	G	622	62.745	74.693	32.676	1.00	99.38	G
ATOM	12995	CD	ARG	G	622	61.448	75.469	32.695	1.00	99.38	G
ATOM	12996	NE	ARG	G	622	61.630	76.827	32.187	1.00	99.38	G
ATOM	12997	CZ	ARG	G	622	60.653	77.721	32.056	1.00	99.38	G
ATOM	12998	NH1	ARG	G	622	59.407	77.403	32.392	1.00	99.38	G
ATOM	12999	NH2	ARG	G	622	60.924	78.942	31.603	1.00	99.38	G
ATOM	13000	C	ARG	G	622	62.947	72.843	36.063	1.00	28.55	G
ATOM	13001	O	ARG	G	622	63.176	71.720	35.616	1.00	28.55	G
ATOM	13002	N	VAL	G	623	62.617	73.056	37.333	1.00	29.29	G
ATOM	13003	CA	VAL	G	623	62.469	71.937	38.259	1.00	29.29	G
ATOM	13004	CB	VAL	G	623	61.667	72.327	39.512	1.00	100.07	G
ATOM	13005	CG1	VAL	G	623	61.412	71.093	40.369	1.00	100.07	G
ATOM	13006	CG2	VAL	G	623	62.424	73.368	40.310	1.00	100.07	G
ATOM	13007	C	VAL	G	623	61.695	70.838	37.530	1.00	29.29	G
ATOM	13008	O	VAL	G	623	60.690	71.092	36.852	1.00	29.29	G
ATOM	13009	N	ASP	G	624	62.155	69.608	37.676	1.00	89.28	G
ATOM	13010	CA	ASP	G	624	61.512	68.520	36.983	1.00	89.28	G
ATOM	13011	CB	ASP	G	624	62.571	67.568	36.447	1.00	70.43	G
ATOM	13012	CG	ASP	G	624	62.035	66.655	35.383	1.00	70.43	G
ATOM	13013	OD1	ASP	G	624	61.474	67.173	34.395	1.00	70.43	G
ATOM	13014	OD2	ASP	G	624	62.176	65.424	35.536	1.00	70.43	G
ATOM	13015	C	ASP	G	624	60.500	67.755	37.812	1.00	89.28	G
ATOM	13016	O	ASP	G	624	60.294	66.569	37.589	1.00	89.28	G
ATOM	13017	N	TYR	G	625	59.864	68.421	38.765	1.00	78.71	G
ATOM	13018	CA	TYR	G	625	58.857	67.755	39.581	1.00	78.71	G
ATOM	13019	CB	TYR	G	625	59.495	67.007	40.746	1.00	49.45	G
ATOM	13020	CG	TYR	G	625	59.741	65.537	40.492	1.00	49.45	G
ATOM	13021	CD1	TYR	G	625	60.922	65.105	39.900	1.00	49.45	G
ATOM	13022	CE1	TYR	G	625	61.157	63.763	39.675	1.00	49.45	G
ATOM	13023	CD2	TYR	G	625	58.796	64.579	40.851	1.00	49.45	G
ATOM	13024	CE2	TYR	G	625	59.023	63.240	40.627	1.00	49.45	G
ATOM	13025	CZ	TYR	G	625	60.204	62.842	40.039	1.00	49.45	G
ATOM	13026	OH	TYR	G	625	60.451	61.519	39.797	1.00	49.45	G
ATOM	13027	C	TYR	G	625	57.866	68.744	40.141	1.00	78.71	G
ATOM	13028	O	TYR	G	625	57.678	68.815	41.354	1.00	78.71	G
ATOM	13029	N	SER	G	626	57.205	69.494	39.274	1.00	28.63	G
ATOM	13030	CA	SER	G	626	56.278	70.479	39.772	1.00	28.63	G
ATOM	13031	CB	SER	G	626	57.018	71.788	39.975	1.00	100.07	G
ATOM	13032	OG	SER	G	626	56.115	72.867	39.840	1.00	100.07	G
ATOM	13033	C	SER	G	626	55.033	70.769	38.969	1.00	28.63	G
ATOM	13034	O	SER	G	626	55.021	70.673	37.750	1.00	28.63	G
ATOM	13035	N	GLY	G	627	53.985	71.161	39.676	1.00	90.30	G
ATOM	13036	CA	GLY	G	627	52.740	71.523	39.030	1.00	90.30	G
ATOM	13037	C	GLY	G	627	52.401	72.899	39.566	1.00	90.30	G
ATOM	13038	O	GLY	G	627	53.085	73.379	40.468	1.00	90.30	G
ATOM	13039	N	ARG	G	628	51.374	73.547	39.030	1.00	16.46	G
ATOM	13040	CA	ARG	G	628	51.002	74.861	39.530	1.00	16.46	G
ATOM	13041	CB	ARG	G	628	52.085	75.890	39.206	1.00	93.47	G
ATOM	13042	CG	ARG	G	628	52.472	75.980	37.757	1.00	93.47	G
ATOM	13043	CD	ARG	G	628	52.690	77.424	37.386	1.00	93.47	G
ATOM	13044	NE	ARG	G	628	51.798	77.813	36.304	1.00	93.47	G
ATOM	13045	CZ	ARG	G	628	51.437	79.063	36.042	1.00	93.47	G
ATOM	13046	NH1	ARG	G	628	51.893	80.055	36.795	1.00	93.47	G
ATOM	13047	NH2	ARG	G	628	50.622	79.319	35.024	1.00	93.47	G
ATOM	13048	C	ARG	G	628	49.668	75.315	38.981	1.00	16.46	G
ATOM	13049	O	ARG	G	628	49.501	75.456	37.779	1.00	16.46	G
ATOM	13050	N	SER	G	629	48.709	75.548	39.867	1.00	25.34	G
ATOM	13051	CA	SER	G	629	47.382	75.965	39.440	1.00	25.34	G
ATOM	13052	CB	SER	G	629	46.411	74.800	39.566	1.00	100.07	G
ATOM	13053	OG	SER	G	629	45.122	75.168	39.115	1.00	100.07	G
ATOM	13054	C	SER	G	629	46.881	77.105	40.296	1.00	25.34	G
ATOM	13055	O	SER	G	629	47.650	77.709	41.052	1.00	25.34	G
ATOM	13056	N	VAL	G	630	45.584	77.384	40.179	1.00	11.98	G
ATOM	13057	CA	VAL	G	630	44.963	78.441	40.953	1.00	11.98	G
ATOM	13058	CB	VAL	G	630	43.650	78.871	40.364	1.00	7.52	G
ATOM	13059	CG1	VAL	G	630	43.026	79.925	41.270	1.00	7.52	G
ATOM	13060	CG2	VAL	G	630	43.858	79.409	38.988	1.00	7.52	G
ATOM	13061	C	VAL	G	630	44.694	78.052	42.403	1.00	11.98	G
ATOM	13062	O	VAL	G	630	44.238	76.951	42.716	1.00	11.98	G
ATOM	13063	N	ILE	G	631	44.960	78.995	43.286	1.00	34.03	G
ATOM	13064	CA	ILE	G	631	44.779	78.766	44.692	1.00	34.03	G
ATOM	13065	CB	ILE	G	631	45.829	79.585	45.471	1.00	68.49	G
ATOM	13066	CG2	ILE	G	631	45.325	79.983	46.820	1.00	68.49	G



ATOM	13067	CG1	ILE	G	631	47.086	78.742	45.631	1.00	68.49	
ATOM	13068	CD	ILE	G	631	47.489	78.004	44.373	1.00	68.49	G
ATOM	13069	C	ILE	G	631	43.360	79.093	45.118	1.00	34.03	G
ATOM	13070	O	ILE	G	631	42.682	79.928	44.500	1.00	34.03	G
ATOM	13071	N	VAL	G	632	42.914	78.390	46.159	1.00	34.74	G
ATOM	13072	CA	VAL	G	632	41.587	78.552	46.738	1.00	34.74	G
ATOM	13073	CB	VAL	G	632	40.559	77.618	46.049	1.00	9.48	G
ATOM	13074	CG1	VAL	G	632	39.632	77.010	47.063	1.00	9.48	G
ATOM	13075	CG2	VAL	G	632	39.744	78.401	45.048	1.00	9.48	G
ATOM	13076	C	VAL	G	632	41.643	78.249	48.238	1.00	34.74	G
ATOM	13077	O	VAL	G	632	42.370	77.353	48.694	1.00	34.74	G
ATOM	13078	N	VAL	G	633	40.878	79.025	48.999	1.00	18.50	G
ATOM	13079	CA	VAL	G	633	40.798	78.870	50.436	1.00	18.50	G
ATOM	13080	CB	VAL	G	633	40.042	80.021	51.044	1.00	35.16	G
ATOM	13081	CG1	VAL	G	633	38.677	80.106	50.397	1.00	35.16	G
ATOM	13082	CG2	VAL	G	633	39.890	79.807	52.539	1.00	35.16	G
ATOM	13083	C	VAL	G	633	40.022	77.609	50.789	1.00	18.50	G
ATOM	13084	O	VAL	G	633	39.194	77.123	50.008	1.00	18.50	G
ATOM	13085	N	GLY	G	634	40.275	77.100	51.988	1.00	15.10	G
ATOM	13086	CA	GLY	G	634	39.578	75.923	52.465	1.00	15.10	G
ATOM	13087	C	GLY	G	634	40.061	75.554	53.850	1.00	15.10	G
ATOM	13088	O	GLY	G	634	41.266	75.446	54.061	1.00	15.10	G
ATOM	13089	N	PRO	G	635	39.159	75.386	54.821	1.00	29.71	G
ATOM	13090	CD	PRO	G	635	37.763	75.838	54.812	1.00	61.92	G
ATOM	13091	CA	PRO	G	635	39.576	75.018	56.177	1.00	29.71	G
ATOM	13092	CB	PRO	G	635	38.283	75.107	56.967	1.00	61.92	G
ATOM	13093	CG	PRO	G	635	37.552	76.173	56.259	1.00	61.92	G
ATOM	13094	C	PRO	G	635	40.189	73.602	56.224	1.00	29.71	G
ATOM	13095	O	PRO	G	635	39.640	72.686	56.846	1.00	29.71	G
ATOM	13096	N	ALA	G	636	41.319	73.424	55.538	1.00	69.68	G
ATOM	13097	CA	ALA	G	636	42.032	72.145	55.509	1.00	69.68	G
ATOM	13098	CB	ALA	G	636	43.073	72.138	54.341	1.00	5.07	G
ATOM	13099	C	ALA	G	636	42.729	72.080	56.866	1.00	69.68	G
ATOM	13100	O	ALA	G	636	42.862	73.110	57.514	1.00	69.68	G
ATOM	13101	N	ALA	G	637	43.151	70.900	57.316	1.00	64.90	G
ATOM	13102	CA	ALA	G	637	43.832	70.815	58.614	1.00	64.90	G
ATOM	13103	CB	ALA	G	637	44.521	69.484	58.788	1.00	100.07	G
ATOM	13104	C	ALA	G	637	44.850	71.928	58.601	1.00	64.90	G
ATOM	13105	O	ALA	G	637	45.944	71.792	58.055	1.00	64.90	G
ATOM	13106	N	ALA	G	638	44.456	73.044	59.190	1.00	92.94	G
ATOM	13107	CA	ALA								



ATOM	13151	CG	LEU	G	644	48.596	68.886	45.827	1.00	19.81	G
ATOM	13152	CD1	LEU	G	644	48.763	69.685	47.086	1.00	19.81	G
ATOM	13153	CD2	LEU	G	644	49.379	67.595	45.946	1.00	19.81	G
ATOM	13154	C	LEU	G	644	44.914	68.828	44.635	1.00	40.04	G
ATOM	13155	O	LEU	G	644	44.300	67.997	45.296	1.00	40.04	G
ATOM	13156	N	PRO	G	645	44.626	69.049	43.348	1.00	38.50	G
ATOM	13157	CD	PRO	G	645	45.406	69.783	42.347	1.00	17.71	G
ATOM	13158	CA	PRO	G	645	43.521	68.314	42.720	1.00	38.50	G
ATOM	13159	CB	PRO	G	645	43.562	68.775	41.268	1.00	17.71	G
ATOM	13160	CG	PRO	G	645	44.372	70.066	41.310	1.00	17.71	G
ATOM	13161	C	PRO	G	645	43.922	66.858	42.831	1.00	38.50	G
ATOM	13162	O	PRO	G	645	45.116	66.567	42.882	1.00	38.50	G
ATOM	13163	N	LYS	G	646	42.973	65.932	42.865	1.00	80.83	G
ATOM	13164	CA	LYS	G	646	43.392	64.546	42.979	1.00	80.83	G
ATOM	13165	CB	LYS	G	646	42.257	63.646	43.454	1.00	39.56	G
ATOM	13166	CG	LYS	G	646	41.140	63.342	42.490	1.00	39.56	G
ATOM	13167	CD	LYS	G	646	40.197	62.424	43.240	1.00	39.56	G
ATOM	13168	CE	LYS	G	646	39.155	61.766	42.373	1.00	39.56	G
ATOM	13169	NZ	LYS	G	646	38.444	60.697	43.168	1.00	39.56	G
ATOM	13170	C	LYS	G	646	43.918	64.084	41.650	1.00	80.83	G
ATOM	13171	O	LYS	G	646	43.965	62.902	41.358	1.00	80.83	G
ATOM	13172	N	ARG	G	647	44.316	65.051	40.844	1.00	49.85	G
ATOM	13173	CA	ARG	G	647	44.868	64.794	39.534	1.00	49.85	G
ATOM	13174	CB	ARG	G	647	44.283	65.796	38.543	1.00	99.57	G
ATOM	13175	CG	ARG	G	647	44.334	65.362	37.102	1.00	99.57	G
ATOM	13176	CD	ARG	G	647	43.502	64.113	36.879	1.00	99.57	G
ATOM	13177	NE	ARG	G	647	43.402	63.777	35.460	1.00	99.57	G
ATOM	13178	CZ	ARG	G	647	42.906	62.634	34.990	1.00	99.57	G
ATOM	13179	NH1	ARG	G	647	42.461	61.700	35.828	1.00	99.57	G
ATOM	13180	NH2	ARG	G	647	42.859	62.427	33.677	1.00	99.57	G
ATOM	13181	C	ARG	G	647	46.367	65.015	39.710	1.00	49.85	G
ATOM	13182	O	ARG	G	647	47.125	64.056	39.787	1.00	49.85	G
ATOM	13183	N	MET	G	648	46.763	66.289	39.816	1.00	29.00	G
ATOM	13184	CA	MET	G	648	48.156	66.717	39.993	1.00	29.00	G
ATOM	13185	CB	MET	G	648	48.243	68.102	40.649	1.00	30.28	G
ATOM	13186	CG	MET	G	648	47.489	69.223	39.953	1.00	30.28	G
ATOM	13187	SD	MET	G	648	48.145	70.888	40.324	1.00	30.28	G
ATOM	13188	CE	MET	G	648	48.852	70.663	41.989	1.00	30.28	G
ATOM	13189	C	MET	G	648	48.936	65.761	40.858	1.00	29.00	G
ATOM	13190	O	MET	G	648	50.023	65.337	40.484	1.00	29.00	G
ATOM	13191	N	ALA	G	649	48.382	65.430	42.020	1.00	26.60	G
ATOM	13192	CA	ALA	G	649	49.066	64.528	42.939	1.00	26.60	G
ATOM	13193	CB	ALA	G	649	48.095	64.021	44.027	1.00	10.22	G
ATOM	13194	C	ALA	G	649	49.628	63.363	42.131	1.00	26.60	G
ATOM	13195	O	ALA	G	649	50.809	62.997	42.254	1.00	26.60	G
ATOM	13196	N	LEU	G	650	48.778	62.791	41.288	1.00	49.03	G
ATOM	13197	CA	LEU	G	650	49.195	61.683	40.447	1.00	49.03	G
ATOM	13198	CB	LEU	G	650	48.053	61.267	39.511	1.00	47.03	G
ATOM	13199	CG	LEU	G	650	48.350	60.182	38.470	1.00	47.03	G
ATOM	13200	CD1	LEU	G	650	48.809	58.909	39.163	1.00	47.03	G
ATOM	13201	CD2	LEU	G	650	47.102	59.920	37.639	1.00	47.03	G
ATOM	13202	C	LEU	G	650	50.408	62.105	39.627	1.00	49.03	G
ATOM	13203	O	LEU	G	650	51.540	61.729	39.936	1.00	49.03	G
ATOM	13204	N	GLU	G	651	50.159	62.915	38.600	1.00	48.76	G
ATOM	13205	CA	GLU	G	651	51.206	63.382	37.702	1.00	48.76	G
ATOM	13206	CB	GLU	G	651	50.737	64.594	36.904	1.00	84.05	G
ATOM	13207	CG	GLU	G	651	51.026	64.488	35.413	1.00	84.05	G
ATOM	13208	CD	GLU	G	651	52.443	64.041	35.119	1.00	84.05	G
ATOM	13209	OE1	GLU	G	651	53.375	64.581	35.748	1.00	84.05	G
ATOM	13210	OE2	GLU	G	651	52.626	63.160	34.252	1.00	84.05	G
ATOM	13211	C	GLU	G	651	52.501	63.719	38.410	1.00	48.76	G
ATOM	13212	O	GLU	G	651	53.559	63.655	37.801	1.00	48.76	G
ATOM	13213	N	LEU	G	652	52.431	64.083	39.687	1.00	47.24	G
ATOM	13214	CA	LEU	G	652	53.650	64.397	40.419	1.00	47.24	G
ATOM	13215	CB	LEU	G	652	53.376	65.324	41.613	1.00	47.90	G
ATOM	13216	CG	LEU	G	652	53.281	66.856	41.463	1.00	47.90	G
ATOM	13217	CD1	LEU	G	652	54.230	67.347	40.356	1.00	47.90	G
ATOM	13218	CD2	LEU	G	652	51.850	67.267	41.166	1.00	47.90	G
ATOM	13219	C	LEU	G	652	54.310	63.122	40.919	1.00	47.24	G
ATOM	13220	O	LEU	G	652	55.413	62.784	40.509	1.00	47.24	G
ATOM	13221	N	PHE	G	653	53.620	62.400	41.787	1.00	56.79	G
ATOM	13222	CA	PHE	G	653	54.175	61.179	42.354	1.00	56.79	G
ATOM	13223	CB	PHE	G	653	53.487	60.905	43.690	1.00	25.78	G
ATOM	13224	CG	PHE	G	653	53.758	61.954	44.725	1.00	25.78	G
ATOM	13225	CD1	PHE	G	653	53.278	63.242	44.569	1.00	25.78	G
ATOM	13226	CD2	PHE	G	653	54.540	61.666	45.830	1.00	25.78	G
ATOM	13227	CE1	PHE	G	653	53.579	64.224	45.495	1.00	25.78	G
ATOM	13228	CE2	PHE	G	653	54.841	62.649	46.754	1.00	25.78	G
ATOM	13229	CZ	PHE	G	653	54.361	63.928	46.584	1.00	25.78	G
ATOM	13230	C	PHE	G	653	54.133	59.924	41.473	1.00	56.79	G
ATOM	13231	O	PHE	G	653	54.311	58.806	41.963	1.00	56.79	G
ATOM	13232	N	LYS	G	654	53.916	60.105	40.174	1.00	40.62	G
ATOM	13233	CA	LYS	G	654	53.854	58.971	39.255	1.00	40.62	G
ATOM	13234	CB	LYS	G	654	53.914	59.473	37.808	1.00	99.70	G



ATOM	13235	CG	LYS	G	654	53.341	58.518	36.779	1.00	99.70	G
ATOM	13236	CD	LYS	G	654	52.932	59.276	35.524	1.00	99.70	G
ATOM	13237	CE	LYS	G	654	52.021	58.444	34.652	1.00	99.70	G
ATOM	13238	NZ	LYS	G	654	51.344	59.299	33.652	1.00	99.70	G
ATOM	13239	C	LYS	G	654	54.996	57.992	39.551	1.00	40.62	G
ATOM	13240	O	LYS	G	654	54.764	56.925	40.117	1.00	40.62	G
ATOM	13241	N	PRO	G	655	56.248	58.364	39.212	1.00	28.87	G
ATOM	13242	CD	PRO	G	655	56.711	59.692	38.775	1.00	54.28	G
ATOM	13243	CA	PRO	G	655	57.400	57.494	39.457	1.00	28.87	G
ATOM	13244	CB	PRO	G	655	58.588	58.421	39.247	1.00	54.28	G
ATOM	13245	CG	PRO	G	655	58.084	59.385	38.254	1.00	54.28	G
ATOM	13246	C	PRO	G	655	57.359	56.982	40.870	1.00	28.87	G
ATOM	13247	O	PRO	G	655	57.877	55.921	41.169	1.00	28.87	G
ATOM	13248	N	PHE	G	656	56.745	57.756	41.746	1.00	35.11	G
ATOM	13249	CA	PHE	G	656	56.658	57.361	43.133	1.00	35.11	G
ATOM	13250	CB	PHE	G	656	56.374	58.585	44.010	1.00	60.65	G
ATOM	13251	CG	PHE	G	656	57.544	58.999	44.841	1.00	60.65	G
ATOM	13252	CD1	PHE	G	656	58.759	59.294	44.244	1.00	60.65	G
ATOM	13253	CD2	PHE	G	656	57.459	59.003	46.225	1.00	60.65	G
ATOM	13254	CE1	PHE	G	656	59.875	59.576	45.012	1.00	60.65	G
ATOM	13255	CE2	PHE	G	656	58.570	59.283	47.008	1.00	60.65	G
ATOM	13256	CZ	PHE	G	656	59.782	59.568	46.402	1.00	60.65	G
ATOM	13257	C	PHE	G	656	55.568	56.334	43.280	1.00	35.11	G
ATOM	13258	O	PHE	G	656	55.662	55.425	44.102	1.00	35.11	G
ATOM	13259	N	LEU	G	657	54.537	56.489	42.464	1.00	65.32	G
ATOM	13260	CA	LEU	G	657	53.414	55.586	42.488	1.00	65.32	G
ATOM	13261	CB	LEU	G	657	52.169	56.265	41.898	1.00	19.03	G
ATOM	13262	CG	LEU	G	657	50.975	55.329	41.619	1.00	19.03	G
ATOM	13263	CD1	LEU	G	657	50.680	54.490	42.870	1.00	19.03	G
ATOM	13264	CD2	LEU	G	657	49.739	56.121	41.187	1.00	19.03	G
ATOM	13265	C	LEU	G	657	53.706	54.284	41.744	1.00	65.32	G
ATOM	13266	O	LEU	G	657	53.362	53.211	42.235	1.00	65.32	G
ATOM	13267	N	LEU	G	658	54.346	54.358	40.578	1.00	78.99	G
ATOM	13268	CA	LEU	G	658	54.639	53.146	39.805	1.00	78.99	G
ATOM	13269	CB	LEU	G	658	55.548	53.470	38.619	1.00	45.38	G
ATOM	13270	CG	LEU	G	658	55.077	54.636	37.735	1.00	45.38	G
ATOM	13271	CD1	LEU	G	658	55.955	54.755	36.495	1.00	45.38	G
ATOM	13272	CD2	LEU	G	658	53.636	54.419	37.334	1.00	45.38	G
ATOM	13273	C	LEU	G	658	55.258	52.033	40.646	1.00	78.99	G
ATOM	13274	O	LEU	G	658	55.009	50.860	40.397	1.00	78.99	G
ATOM	13275	N	LYS	G	659	56.061	52.401	41.639	1.00	75.27	G
ATOM	13276	CA	LYS	G	659	56.687	51.424	42.535	1.00	75.27	G
ATOM	13277	CB	LYS	G	659	57.680	52.121	43.476	1.00	100.07	G
ATOM	13278	CG	LYS	G	659	58.019	51.337	44.753	1.00	100.07	G
ATOM	13279	CD	LYS	G	659	58.850	52.187	45.715	1.00	100.07	G
ATOM	13280	CE	LYS	G	659	59.066	51.485	47.051	1.00	100.07	G
ATOM	13281	NZ	LYS	G	659	60.031	52.214	47.939	1.00	100.07	G
ATOM	13282	C	LYS	G	659	55.620	50.731	43.375	1.00	75.27	G
ATOM	13283	O	LYS	G	659	55.738	49.551	43.691	1.00	75.27	G
ATOM	13284	N	LYS	G	660	54.597	51.492	43.753	1.00	80.48	G
ATOM	13285	CA	LYS	G	660	53.489	50.986	44.551	1.00	80.48	G
ATOM	13286	CB	LYS	G	660	52.409	52.064	44.699	1.00	98.60	G
ATOM	13287	CG	LYS	G	660	51.235	51.702	45.600	1.00	98.60	G
ATOM	13288	CD	LYS	G	660	51.597	51.857	47.075	1.00	98.60	G
ATOM	13289	CE	LYS	G	660	50.384	51.647	47.984	1.00	98.60	G
ATOM	13290	NZ	LYS	G	660	50.742	51.783	49.432	1.00	98.60	G
ATOM	13291	C	LYS	G	660	52.911	49.804	43.803	1.00	80.48	G
ATOM	13292	O	LYS	G	660	53.372	48.677	43.952	1.00	80.48	G
ATOM	13293	N	MET	G	661	51.909	50.098	42.981	1.00	100.07	G
ATOM	13294	CA	MET	G	661	51.205	49.114	42.172	1.00	100.07	G
ATOM	13295	CB	MET	G	661	50.988	49.691	40.775	1.00	51.26	G
ATOM	13296	CG	MET	G	661	50.066	50.902	40.804	1.00	51.26	G
ATOM	13297	SD	MET	G	661	49.618	51.549	39.191	1.00	51.26	G
ATOM	13298	CE	MET	G	661	50.071	53.262	39.371	1.00	51.26	G
ATOM	13299	C	MET	G	661	51.825	47.716	42.101	1.00	100.07	G
ATOM	13300	O	MET	G	661	51.199	46.749	42.546	1.00	100.07	G
ATOM	13301	N	GLU	G	662	53.037	47.592	41.562	1.00	99.55	G
ATOM	13302	CA	GLU	G	662	53.666	46.272	41.482	1.00	99.55	G
ATOM	13303	CB	GLU	G	662	54.955	46.304	40.672	1.00	100.07	G
ATOM	13304	CG	GLU	G	662	55.505	44.904	40.447	1.00	100.07	G
ATOM	13305	CD	GLU	G	662	56.878	44.899	39.814	1.00	100.07	G
ATOM	13306	OE1	GLU	G	662	57.849	45.282	40.500	1.00	100.07	G
ATOM	13307	OE2	GLU	G	662	56.986	44.513	38.629	1.00	100.07	G
ATOM	13308	C	GLU	G	662	53.979	45.743	42.875	1.00	99.55	G
ATOM	13309	O	GLU	G	662	53.684	44.593	43.192	1.00	99.55	G
ATOM	13310	N	GLU	G	663	54.614	46.574	43.693	1.00	100.07	G
ATOM	13311	CA	GLU	G	663	54.911	46.188	45.065	1.00	100.07	G
ATOM	13312	CB	GLU	G	663	55.613	47.328	45.809	1.00	100.07	G
ATOM	13313	CG	GLU	G	663	55.546	47.179	47.324	1.00	100.07	G
ATOM	13314	CD	GLU	G	663	55.596	48.509	48.062	1.00	100.07	G
ATOM	13315	OE1	GLU	G	663	55.020	49.502	47.556	1.00	100.07	G
ATOM	13316	OE2	GLU	G	663	56.194	48.552	49.162	1.00	100.07	G
ATOM	13317	C	GLU	G	663	53.538	45.950	45.687	1.00	100.07	G
ATOM	13318	O	GLU	G	663	53.327	44.997	46.440	1.00	100.07	G



ATOM	13319	N	LYS	G	664	52.608	46.841	45.349	1.00	60.73	G
ATOM	13320	CA	LYS	G	664	51.229	46.778	45.823	1.00	60.73	G
ATOM	13321	CB	LYS	G	664	50.480	48.055	45.402	1.00	100.07	G
ATOM	13322	CG	LYS	G	664	49.017	48.173	45.852	1.00	100.07	G
ATOM	13323	CD	LYS	G	664	48.847	48.509	47.331	1.00	100.07	G
ATOM	13324	CE	LYS	G	664	47.372	48.719	47.656	1.00	100.07	G
ATOM	13325	NZ	LYS	G	664	47.100	48.884	49.106	1.00	100.07	G
ATOM	13326	C	LYS	G	664	50.618	45.549	45.164	1.00	60.73	G
ATOM	13327	O	LYS	G	664	49.423	45.279	45.281	1.00	60.73	G
ATOM	13328	N	ALA	G	665	51.470	44.813	44.463	1.00	100.07	G
ATOM	13329	CA	ALA	G	665	51.084	43.592	43.780	1.00	100.07	G
ATOM	13330	CB	ALA	G	665	50.374	42.646	44.750	1.00	100.07	G
ATOM	13331	C	ALA	G	665	50.233	43.798	42.535	1.00	100.07	G
ATOM	13332	O	ALA	G	665	50.370	43.036	41.574	1.00	100.07	G
ATOM	13333	N	PHE	G	666	49.361	44.805	42.515	1.00	33.07	G
ATOM	13334	CA	PHE	G	666	48.553	44.963	41.311	1.00	33.07	G
ATOM	13335	CB	PHE	G	666	47.475	46.016	41.454	1.00	72.87	G
ATOM	13336	CG	PHE	G	666	46.494	45.973	40.331	1.00	72.87	G
ATOM	13337	CD1	PHE	G	666	45.872	44.768	40.001	1.00	72.87	G
ATOM	13338	CD2	PHE	G	666	46.212	47.101	39.580	1.00	72.87	G
ATOM	13339	CE1	PHE	G	666	44.981	44.683	38.938	1.00	72.87	G
ATOM	13340	CE2	PHE	G	666	45.318	47.029	38.511	1.00	72.87	G
ATOM	13341	CZ	PHE	G	666	44.701	45.815	38.188	1.00	72.87	G
ATOM	13342	C	PHE	G	666	49.398	45.312	40.108	1.00	33.07	G
ATOM	13343	O	PHE	G	666	50.470	45.878	40.256	1.00	33.07	G
ATOM	13344	N	ALA	G	667	48.906	44.990	38.917	1.00	84.06	G
ATOM	13345	CA	ALA	G	667	49.659	45.255	37.695	1.00	84.06	G
ATOM	13346	CB	ALA	G	667	49.845	46.752	37.502	1.00	100.07	G
ATOM	13347	C	ALA	G	667	51.017	44.550	37.815	1.00	84.06	G
ATOM	13348	O	ALA	G	667	51.907	44.994	38.542	1.00	84.06	G
ATOM	13349	N	PRO	G	668	51.191	43.439	37.088	1.00	100.07	G
ATOM	13350	CD	PRO	G	668	50.284	42.977	36.021	1.00	100.07	G
ATOM	13351	CA	PRO	G	668	52.423	42.645	37.102	1.00	100.07	G
ATOM	13352	CB	PRO	G	668	52.097	41.502	36.152	1.00	100.07	G
ATOM	13353	CG	PRO	G	668	51.206	42.169	35.146	1.00	100.07	G
ATOM	13354	C	PRO	G	668	53.699	43.374	36.702	1.00	100.07	G
ATOM	13355	O	PRO	G	668	54.733	43.223	37.359	1.00	100.07	G
ATOM	13356	N	ASN	G	669	53.629	44.158	35.627	1.00	100.04	G
ATOM	13357	CA	ASN	G	669	54.803	44.880	35.144	1.00	100.04	G
ATOM	13358	CB	ASN	G	669	54.957	44.687	33.628	1.00	100.07	G</



ATOM	13403	CG	MET	G	676	46.249	49.693	35.088	1.00	58.41	G
ATOM	13404	SD	MET	G	676	46.864	48.497	36.277	1.00	58.41	G
ATOM	13405	CE	MET	G	676	47.491	47.222	35.162	1.00	58.41	G
ATOM	13406	C	MET	G	676	46.637	52.314	33.486	1.00	87.94	G
ATOM	13407	O	MET	G	676	45.482	52.403	33.896	1.00	87.94	G
ATOM	13408	N	LEU	G	677	47.457	53.360	33.393	1.00	72.25	G
ATOM	13409	CA	LEU	G	677	47.018	54.712	33.724	1.00	72.25	G
ATOM	13410	CB	LEU	G	677	48.045	55.446	34.594	1.00	26.85	G
ATOM	13411	CG	LEU	G	677	48.854	54.754	35.700	1.00	26.85	G
ATOM	13412	CD1	LEU	G	677	49.709	55.787	36.404	1.00	26.85	G
ATOM	13413	CD2	LEU	G	677	47.952	54.080	36.701	1.00	26.85	G
ATOM	13414	C	LEU	G	677	46.913	55.434	32.391	1.00	72.25	G
ATOM	13415	O	LEU	G	677	46.217	56.441	32.261	1.00	72.25	G
ATOM	13416	N	GLU	G	678	47.622	54.896	31.401	1.00	100.07	G
ATOM	13417	CA	GLU	G	678	47.658	55.455	30.050	1.00	100.07	G
ATOM	13418	CB	GLU	G	678	48.872	54.905	29.279	1.00	100.07	G
ATOM	13419	CG	GLU	G	678	49.657	55.956	28.480	1.00	100.07	G
ATOM	13420	CD	GLU	G	678	51.005	56.308	29.110	1.00	100.07	G
ATOM	13421	OE1	GLU	G	678	51.886	55.422	29.158	1.00	100.07	G
ATOM	13422	OE2	GLU	G	678	51.186	57.467	29.554	1.00	100.07	G
ATOM	13423	C	GLU	G	678	46.376	55.186	29.246	1.00	100.07	G
ATOM	13424	O	GLU	G	678	46.371	55.317	28.019	1.00	100.07	G
ATOM	13425	N	ARG	G	679	45.296	54.799	29.924	1.00	100.07	G
ATOM	13426	CA	ARG	G	679	44.024	54.567	29.239	1.00	100.07	G
ATOM	13427	CB	ARG	G	679	43.046	53.833	30.171	1.00	100.07	G
ATOM	13428	CG	ARG	G	679	41.582	53.754	29.693	1.00	100.07	G
ATOM	13429	CD	ARG	G	679	41.419	53.023	28.359	1.00	100.07	G
ATOM	13430	NE	ARG	G	679	40.018	52.701	28.074	1.00	100.07	G
ATOM	13431	CZ	ARG	G	679	39.603	52.017	27.008	1.00	100.07	G
ATOM	13432	NH1	ARG	G	679	40.480	51.579	26.111	1.00	100.07	G
ATOM	13433	NH2	ARG	G	679	38.311	51.751	26.845	1.00	100.07	G
ATOM	13434	C	ARG	G	679	43.501	55.963	28.895	1.00	100.07	G
ATOM	13435	O	ARG	G	679	42.337	56.143	28.538	1.00	100.07	G
ATOM	13436	N	GLN	G	680	44.406	56.937	29.010	1.00	100.07	G
ATOM	13437	CA	GLN	G	680	44.164	58.358	28.764	1.00	100.07	G
ATOM	13438	CB	GLN	G	680	43.680	58.597	27.316	1.00	100.07	G
ATOM	13439	CG	GLN	G	680	42.222	58.264	27.005	1.00	100.07	G
ATOM	13440	CD	GLN	G	680	41.919	58.299	25.507	1.00	100.07	G
ATOM	13441	OE1	GLN	G	680	42.237	59.273	24.820	1.00	100.07	G
ATOM	13442	NE2	GLN	G	680	41.300	57.235	25.			



ATOM	13487	C	ASP	G	685	40.533	52.173	43.595	1.00100.07	
ATOM	13488	O	ASP	G	685	41.146	52.378	44.639	1.00100.07	G
ATOM	13489	N	GLU	G	686	40.772	51.129	42.813	1.00100.07	G
ATOM	13490	CA	GLU	G	686	41.784	50.147	43.165	1.00100.07	G
ATOM	13491	CB	GLU	G	686	41.770	49.002	42.164	1.00 84.76	G
ATOM	13492	CG	GLU	G	686	40.408	48.380	42.036	1.00 84.76	G
ATOM	13493	CD	GLU	G	686	40.394	47.204	41.103	1.00 84.76	G
ATOM	13494	OE1	GLU	G	686	40.990	46.161	41.452	1.00 84.76	G
ATOM	13495	OE2	GLU	G	686	39.786	47.329	40.018	1.00 84.76	G
ATOM	13496	C	GLU	G	686	43.146	50.805	43.190	1.00100.07	G
ATOM	13497	O	GLU	G	686	44.085	50.279	43.795	1.00100.07	G
ATOM	13498	N	VAL	G	687	43.250	51.958	42.533	1.00 46.49	G
ATOM	13499	CA	VAL	G	687	44.514	52.682	42.508	1.00 46.49	G
ATOM	13500	CB	VAL	G	687	44.814	53.289	41.138	1.00 35.04	G
ATOM	13501	CG1	VAL	G	687	46.045	54.179	41.242	1.00 35.04	G
ATOM	13502	CG2	VAL	G	687	45.052	52.188	40.118	1.00 35.04	G
ATOM	13503	C	VAL	G	687	44.544	53.797	43.547	1.00 46.49	G
ATOM	13504	O	VAL	G	687	45.270	53.686	44.526	1.00 46.49	G
ATOM	13505	N	TRP	G	688	43.772	54.863	43.333	1.00 20.87	G
ATOM	13506	CA	TRP	G	688	43.720	55.965	44.281	1.00 20.87	G
ATOM	13507	CB	TRP	G	688	42.305	56.476	44.383	1.00 49.62	G
ATOM	13508	CG	TRP	G	688	41.901	57.091	43.144	1.00 49.62	G
ATOM	13509	CD2	TRP	G	688	42.654	58.040	42.391	1.00 49.62	G
ATOM	13510	CE2	TRP	G	688	41.899	58.355	41.247	1.00 49.62	G
ATOM	13511	CE3	TRP	G	688	43.897	58.658	42.574	1.00 49.62	G
ATOM	13512	CD1	TRP	G	688	40.754	56.869	42.459	1.00 49.62	G
ATOM	13513	NE1	TRP	G	688	40.740	57.622	41.313	1.00 49.62	G
ATOM	13514	CZ2	TRP	G	688	42.341	59.262	40.278	1.00 49.62	G
ATOM	13515	CZ3	TRP	G	688	44.338	59.555	41.615	1.00 49.62	G
ATOM	13516	CH2	TRP	G	688	43.560	59.849	40.480	1.00 49.62	G
ATOM	13517	C	TRP	G	688	44.188	55.531	45.645	1.00 20.87	G
ATOM	13518	O	TRP	G	688	45.009	56.198	46.269	1.00 20.87	G
ATOM	13519	N	ASP	G	689	43.660	54.408	46.113	1.00 42.52	G
ATOM	13520	CA	ASP	G	689	44.078	53.882	47.394	1.00 42.52	G
ATOM	13521	CB	ASP	G	689	43.327	52.580	47.721	1.00100.07	G
ATOM	13522	CG	ASP	G	689	41.810	52.717	47.599	1.00100.07	G
ATOM	13523	OD1	ASP	G	689	41.310	53.862	47.662	1.00100.07	G
ATOM	13524	OD2	ASP	G	689	41.117	51.678	47.456	1.00100.07	G
ATOM	13525	C	ASP	G	689	45.577	53.600	47.241	1.00 42.52	G
ATOM	13526	O	ASP	G	689	46.134	52.746	47.921	1.00 42.52	G
ATOM	13527	N	ALA	G	690	46.222	54.327	46.333	1.00 47.89	G
ATOM	13528	CA	ALA	G	690	47.643				



ATOM	13571	C	ILE	G	695	51.979	60.492	51.195	1.00	36.94	G
ATOM	13572	O	ILE	G	695	52.712	61.270	51.796	1.00	36.94	G
ATOM	13573	N	HIS	G	696	51.211	59.584	51.789	1.00	38.08	G
ATOM	13574	CA	HIS	G	696	51.133	59.403	53.238	1.00	38.08	G
ATOM	13575	CB	HIS	G	696	50.525	58.035	53.536	1.00	99.89	G
ATOM	13576	CG	HIS	G	696	50.622	57.623	54.969	1.00	99.89	G
ATOM	13577	CD2	HIS	G	696	50.832	58.342	56.095	1.00	99.89	G
ATOM	13578	ND1	HIS	G	696	50.485	56.312	55.371	1.00	99.89	G
ATOM	13579	CE1	HIS	G	696	50.610	56.241	56.683	1.00	99.89	G
ATOM	13580	NE2	HIS	G	696	50.820	57.460	57.147	1.00	99.89	G
ATOM	13581	C	HIS	G	696	52.484	59.523	53.936	1.00	38.08	G
ATOM	13582	O	HIS	G	696	53.291	58.600	53.901	1.00	38.08	G
ATOM	13583	N	GLY	G	697	52.714	60.661	54.583	1.00	56.00	G
ATOM	13584	CA	GLY	G	697	53.966	60.884	55.281	1.00	56.00	G
ATOM	13585	C	GLY	G	697	54.874	61.798	54.490	1.00	56.00	G
ATOM	13586	O	GLY	G	697	55.994	62.093	54.896	1.00	56.00	G
ATOM	13587	N	ALA	G	698	54.381	62.256	53.349	1.00	37.91	G
ATOM	13588	CA	ALA	G	698	55.161	63.125	52.487	1.00	37.91	G
ATOM	13589	CB	ALA	G	698	55.250	62.534	51.078	1.00	39.23	G
ATOM	13590	C	ALA	G	698	54.565	64.515	52.427	1.00	37.91	G
ATOM	13591	O	ALA	G	698	53.345	64.676	52.308	1.00	37.91	G
ATOM	13592	N	VAL	G	699	55.446	65.510	52.518	1.00	52.30	G
ATOM	13593	CA	VAL	G	699	55.066	66.916	52.462	1.00	52.30	G
ATOM	13594	CB	VAL	G	699	55.817	67.763	53.482	1.00	20.29	G
ATOM	13595	CG1	VAL	G	699	55.163	67.671	54.842	1.00	20.29	G
ATOM	13596	CG2	VAL	G	699	57.244	67.301	53.546	1.00	20.29	G
ATOM	13597	C	VAL	G	699	55.454	67.436	51.111	1.00	52.30	G
ATOM	13598	O	VAL	G	699	56.109	66.744	50.348	1.00	52.30	G
ATOM	13599	N	VAL	G	700	55.078	68.674	50.837	1.00	20.52	G
ATOM	13600	CA	VAL	G	700	55.373	69.297	49.558	1.00	20.52	G
ATOM	13601	CB	VAL	G	700	54.227	69.080	48.593	1.00	5.07	G
ATOM	13602	CG1	VAL	G	700	54.421	69.949	47.418	1.00	5.07	G
ATOM	13603	CG2	VAL	G	700	54.162	67.637	48.170	1.00	5.07	G
ATOM	13604	C	VAL	G	700	55.652	70.805	49.580	1.00	20.52	G
ATOM	13605	O	VAL	G	700	54.876	71.586	50.116	1.00	20.52	G
ATOM	13606	N	LEU	G	701	56.750	71.224	48.975	1.00	23.60	G
ATOM	13607	CA	LEU	G	701	57.036	72.642	48.938	1.00	23.60	G
ATOM	13608	CB	LEU	G	701	58.326	72.913	48.163	1.00	29.05	G
ATOM	13609	CG	LEU	G	701	59.569	72.325	48.830	1.00	29.05	G
ATOM	13610	CD1	LEU	G	701	59.495	72.639	50.302	1.00	29.05	G
ATOM	13611	CD2	LEU	G	701	59.639	70.814	48.647	1.00	29.05	G
ATOM	13612	C	LEU	G	701	55.878	73.293	48.218	1.00	23.60	G
ATOM	13613	O	LEU	G	701	55.483	72.837	47.147	1.00	23.60	G
ATOM	13614	N	LEU	G	702	55.307	74.332	48.810	1.00	11.36	G
ATOM	13615	CA	LEU	G	702	54.215	75.033	48.153	1.00	11.36	G
ATOM	13616	CB	LEU	G	702	53.049	75.191	49.126	1.00	9.14	G
ATOM	13617	CG	LEU	G	702	51.658	75.494	48.568	1.00	9.14	G
ATOM	13618	CD1	LEU	G	702	51.857	76.287	47.304	1.00	9.14	G
ATOM	13619	CD2	LEU	G	702	50.855	74.233	48.287	1.00	9.14	G
ATOM	13620	C	LEU	G	702	54.823	76.392	47.771	1.00	11.36	G
ATOM	13621	O	LEU	G	702	55.236	77.161	48.636	1.00	11.36	G
ATOM	13622	N	ASN	G	703	54.895	76.671	46.471	1.00	17.78	G
ATOM	13623	CA	ASN	G	703	55.508	77.904	45.927	1.00	17.78	G
ATOM	13624	CB	ASN	G	703	55.575	77.826	44.406	1.00	100.07	G
ATOM	13625	CG	ASN	G	703	56.980	77.643	43.880	1.00	100.07	G
ATOM	13626	OD1	ASN	G	703	57.845	78.512	44.042	1.00	100.07	G
ATOM	13627	ND2	ASN	G	703	57.215	76.508	43.230	1.00	100.07	G
ATOM	13628	C	ASN	G	703	54.821	79.195	46.251	1.00	17.78	G
ATOM	13629	O	ASN	G	703	54.011	79.266	47.154	1.00	17.78	G
ATOM	13630	N	ARG	G	704	55.165	80.212	45.475	1.00	55.34	G
ATOM	13631	CA	ARG	G	704	54.579	81.538	45.572	1.00	55.34	G
ATOM	13632	CB	ARG	G	704	54.661	82.120	46.964	1.00	43.55	G
ATOM	13633	CG	ARG	G	704	54.072	83.507	46.979	1.00	43.55	G
ATOM	13634	CD	ARG	G	704	52.663	83.513	46.360	1.00	43.55	G
ATOM	13635	NE	ARG	G	704	52.338	84.820	45.790	1.00	43.55	G
ATOM	13636	CZ	ARG	G	704	51.119	85.214	45.436	1.00	43.55	G
ATOM	13637	NH1	ARG	G	704	50.087	84.404	45.594	1.00	43.55	G
ATOM	13638	NH2	ARG	G	704	50.936	86.422	44.919	1.00	43.55	G
ATOM	13639	C	ARG	G	704	55.320	82.460	44.640	1.00	55.34	G
ATOM	13640	O	ARG	G	704	56.522	82.297	44.438	1.00	55.34	G
ATOM	13641	N	ALA	G	705	54.609	83.437	44.085	1.00	100.07	G
ATOM	13642	CA	ALA	G	705	55.216	84.364	43.143	1.00	100.07	G
ATOM	13643	CB	ALA	G	705	54.160	85.316	42.575	1.00	5.07	G
ATOM	13644	C	ALA	G	705	56.422	85.129	43.694	1.00	100.07	G
ATOM	13645	O	ALA	G	705	57.431	84.508	44.027	1.00	100.07	G
ATOM	13646	N	PRO	G	706	56.345	86.467	43.831	1.00	36.82	G
ATOM	13647	CD	PRO	G	706	55.233	87.410	44.038	1.00	13.47	G
ATOM	13648	CA	PRO	G	706	57.583	87.045	44.348	1.00	36.82	G
ATOM	13649	CB	PRO	G	706	57.236	88.514	44.473	1.00	13.47	G
ATOM	13650	CG	PRO	G	706	55.845	88.438	44.951	1.00	13.47	G
ATOM	13651	C	PRO	G	706	57.929	86.410	45.669	1.00	36.82	G
ATOM	13652	O	PRO	G	706	57.302	86.696	46.683	1.00	36.82	G
ATOM	13653	N	THR	G	707	58.911	85.520	45.660	1.00	41.13	G
ATOM	13654	CA	THR	G	707	59.288	84.870	46.897	1.00	41.13	G



ATOM	13655	CB	THR	G	707	59.990	83.528	46.652	1.00	42.58	G
ATOM	13656	OG1	THR	G	707	59.029	82.579	46.188	1.00	42.58	G
ATOM	13657	CG2	THR	G	707	60.601	83.001	47.925	1.00	42.58	G
ATOM	13658	C	THR	G	707	60.203	85.783	47.667	1.00	41.13	G
ATOM	13659	O	THR	G	707	61.409	85.781	47.460	1.00	41.13	G
ATOM	13660	N	LEU	G	708	59.615	86.598	48.528	1.00	13.85	G
ATOM	13661	CA	LEU	G	708	60.391	87.493	49.351	1.00	13.85	G
ATOM	13662	CB	LEU	G	708	59.617	88.782	49.559	1.00	53.00	G
ATOM	13663	CG	LEU	G	708	59.283	89.477	48.244	1.00	53.00	G
ATOM	13664	CD1	LEU	G	708	58.119	90.445	48.412	1.00	53.00	G
ATOM	13665	CD2	LEU	G	708	60.539	90.181	47.751	1.00	53.00	G
ATOM	13666	C	LEU	G	708	60.474	86.702	50.642	1.00	13.85	G
ATOM	13667	O	LEU	G	708	59.524	86.023	50.983	1.00	13.85	G
ATOM	13668	N	HIS	G	709	61.599	86.753	51.341	1.00	34.04	G
ATOM	13669	CA	HIS	G	709	61.773	86.024	52.602	1.00	34.04	G
ATOM	13670	CB	HIS	G	709	61.260	86.887	53.769	1.00	21.97	G
ATOM	13671	CG	HIS	G	709	59.773	86.850	53.971	1.00	21.97	G
ATOM	13672	CD2	HIS	G	709	59.035	86.635	55.087	1.00	21.97	G
ATOM	13673	ND1	HIS	G	709	58.870	87.119	52.965	1.00	21.97	G
ATOM	13674	CE1	HIS	G	709	57.641	87.072	53.449	1.00	21.97	G
ATOM	13675	NE2	HIS	G	709	57.714	86.781	54.735	1.00	21.97	G
ATOM	13676	C	HIS	G	709	61.200	84.587	52.724	1.00	34.04	G
ATOM	13677	O	HIS	G	709	60.108	84.277	52.255	1.00	34.04	G
ATOM	13678	N	ALA	G	710	61.972	83.725	53.378	1.00	37.34	G
ATOM	13679	CA	ALA	G	710	61.637	82.321	53.617	1.00	37.34	G
ATOM	13680	CB	ALA	G	710	61.887	81.998	55.087	1.00	39.67	G
ATOM	13681	C	ALA	G	710	60.267	81.776	53.225	1.00	37.34	G
ATOM	13682	O	ALA	G	710	60.165	80.749	52.556	1.00	37.34	G
ATOM	13683	N	LEU	G	711	59.213	82.459	53.644	1.00	37.53	G
ATOM	13684	CA	LEU	G	711	57.845	82.000	53.406	1.00	37.53	G
ATOM	13685	CB	LEU	G	711	56.930	82.763	54.368	1.00	68.00	G
ATOM	13686	CG	LEU	G	711	57.603	82.864	55.753	1.00	68.00	G
ATOM	13687	CD1	LEU	G	711	56.779	83.729	56.671	1.00	68.00	G
ATOM	13688	CD2	LEU	G	711	57.801	81.484	56.361	1.00	68.00	G
ATOM	13689	C	LEU	G	711	57.247	81.966	51.984	1.00	37.53	G
ATOM	13690	O	LEU	G	711	56.051	81.728	51.803	1.00	37.53	G
ATOM	13691	N	GLY	G	712	58.065	82.192	50.970	1.00	55.55	G
ATOM	13692	CA	GLY	G	712	57.543	82.115	49.620	1.00	55.55	G
ATOM	13693	C	GLY	G	712	57.451	80.630	49.296	1.00	55.55	G
ATOM	13694	O	GLY	G	712	56.982	80.221	48.219	1.00	55.55	G



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ATOM	13739	O	PRO	G	718	48.171	65.153	51.433	1.00	40.24	G
ATOM	13740	N	VAL	G	719	46.919	66.642	50.320	1.00	18.41	G
ATOM	13741	CA	VAL	G	719	45.669	66.019	50.677	1.00	18.41	G
ATOM	13742	CB	VAL	G	719	45.034	66.762	51.806	1.00	5.76	G
ATOM	13743	CG1	VAL	G	719	43.514	66.781	51.638	1.00	5.76	G
ATOM	13744	CG2	VAL	G	719	45.416	66.081	53.096	1.00	5.76	G
ATOM	13745	C	VAL	G	719	44.723	65.994	49.499	1.00	18.41	G
ATOM	13746	O	VAL	G	719	44.280	67.042	49.026	1.00	18.41	G
ATOM	13747	N	LEU	G	720	44.396	64.794	49.038	1.00	24.94	G
ATOM	13748	CA	LEU	G	720	43.524	64.659	47.889	1.00	24.94	G
ATOM	13749	CB	LEU	G	720	43.204	63.191	47.676	1.00	29.73	G
ATOM	13750	CG	LEU	G	720	44.252	62.527	46.770	1.00	29.73	G
ATOM	13751	CD1	LEU	G	720	45.679	62.911	47.124	1.00	29.73	G
ATOM	13752	CD2	LEU	G	720	44.075	61.048	46.887	1.00	29.73	G
ATOM	13753	C	LEU	G	720	42.274	65.517	47.979	1.00	24.94	G
ATOM	13754	O	LEU	G	720	41.368	65.268	48.767	1.00	24.94	G
ATOM	13755	N	VAL	G	721	42.279	66.557	47.158	1.00	18.32	G
ATOM	13756	CA	VAL	G	721	41.215	67.542	47.073	1.00	18.32	G
ATOM	13757	CB	VAL	G	721	41.810	68.968	47.145	1.00	80.67	G
ATOM	13758	CG1	VAL	G	721	40.800	70.004	46.649	1.00	80.67	G
ATOM	13759	CG2	VAL	G	721	42.255	69.267	48.574	1.00	80.67	G
ATOM	13760	C	VAL	G	721	40.505	67.357	45.739	1.00	18.32	G
ATOM	13761	O	VAL	G	721	41.067	66.781	44.820	1.00	18.32	G
ATOM	13762	N	GLU	G	722	39.288	67.876	45.629	1.00	45.32	G
ATOM	13763	CA	GLU	G	722	38.489	67.734	44.426	1.00	45.32	G
ATOM	13764	CB	GLU	G	722	37.206	68.544	44.550	1.00	44.29	G
ATOM	13765	CG	GLU	G	722	36.123	68.015	43.653	1.00	44.29	G
ATOM	13766	CD	GLU	G	722	36.437	66.609	43.166	1.00	44.29	G
ATOM	13767	OE1	GLU	G	722	36.622	65.704	44.023	1.00	44.29	G
ATOM	13768	OE2	GLU	G	722	36.507	66.423	41.925	1.00	44.29	G
ATOM	13769	C	GLU	G	722	39.136	68.012	43.077	1.00	45.32	G
ATOM	13770	O	GLU	G	722	40.215	67.496	42.795	1.00	45.32	G
ATOM	13771	N	GLY	G	723	38.491	68.829	42.243	1.00	34.23	G
ATOM	13772	CA	GLY	G	723	39.013	69.064	40.899	1.00	34.23	G
ATOM	13773	C	GLY	G	723	39.745	70.316	40.433	1.00	34.23	G
ATOM	13774	O	GLY	G	723	39.124	71.321	40.077	1.00	34.23	G
ATOM	13775	N	GLN	G	724	41.071	70.223	40.375	1.00	56.41	G
ATOM	13776	CA	GLN	G	724	41.933	71.320	39.938	1.00	56.41	G
ATOM	13777	CB	GLN	G	724	41.507	71.809	38.546	1.00	59.60	G
ATOM	13778	CG	GLN	G	724	41.979	70.867	37.425	1.00	59.60	G
ATOM	13779	CD	GLN	G	724	41.227	71.027	36.111	1.00	59.60	G
ATOM	13780	OE1	GLN	G	724	41.635	70.488	35.088	1.00	59.60	G
ATOM	13781	NE2	GLN	G	724	40.117	71.753	36.140	1.00	59.60	G
ATOM	13782	C	GLN	G	724	41.984	72.458	40.944	1.00	56.41	G
ATOM	13783	O	GLN	G	724	41.268	72.440	41.941	1.00	56.41	G
ATOM	13784	N	SER	G	725	42.845	73.435	40.684	1.00	20.83	G
ATOM	13785	CA	SER	G	725	43.041	74.579	41.580	1.00	20.83	G
ATOM	13786	CB	SER	G	725	41.783	75.448	41.637	1.00	24.46	G
ATOM	13787	OG	SER	G	725	40.720	74.781	42.274	1.00	24.46	G
ATOM	13788	C	SER	G	725	43.439	74.083	42.979	1.00	20.83	G
ATOM	13789	O	SER	G	725	42.712	73.341	43.624	1.00	20.83	G
ATOM	13790	N	ILE	G	726	44.620	74.489	43.427	1.00	28.03	G
ATOM	13791	CA	ILE	G	726	45.144	74.063	44.718	1.00	28.03	G
ATOM	13792	CB	ILE	G	726	46.613	74.423	44.891	1.00	7.17	G
ATOM	13793	CG2	ILE	G	726	47.140	73.705	46.094	1.00	7.17	G
ATOM	13794	CG1	ILE	G	726	47.415	74.071	43.636	1.00	7.17	G
ATOM	13795	CD	ILE	G	726	48.900	74.259	43.804	1.00	7.17	G
ATOM	13796	C	ILE	G	726	44.433	74.717	45.871	1.00	28.03	G
ATOM	13797	O	ILE	G	726	44.211	75.929	45.865	1.00	28.03	G
ATOM	13798	N	GLN	G	727	44.117	73.913	46.879	1.00	22.73	G
ATOM	13799	CA	GLN	G	727	43.425	74.398	48.060	1.00	22.73	G
ATOM	13800	CB	GLN	G	727	42.509	73.310	48.592	1.00	21.00	G
ATOM	13801	CG	GLN	G	727	41.204	73.203	47.843	1.00	21.00	G
ATOM	13802	CD	GLN	G	727	40.183	72.386	48.609	1.00	21.00	G
ATOM	13803	OE1	GLN	G	727	38.996	72.355	48.258	1.00	21.00	G
ATOM	13804	NE2	GLN	G	727	40.636	71.714	49.670	1.00	21.00	G
ATOM	13805	C	GLN	G	727	44.409	74.809	49.139	1.00	22.73	G
ATOM	13806	O	GLN	G	727	45.249	74.014	49.536	1.00	22.73	G
ATOM	13807	N	LEU	G	728	44.298	76.041	49.626	1.00	60.72	G
ATOM	13808	CA	LEU	G	728	45.216	76.533	50.653	1.00	60.72	G
ATOM	13809	CB	LEU	G	728	45.834	77.845	50.207	1.00	5.43	G
ATOM	13810	CG	LEU	G	728	47.128	78.382	50.791	1.00	5.43	G
ATOM	13811	CD1	LEU	G	728	48.307	77.922	49.982	1.00	5.43	G
ATOM	13812	CD2	LEU	G	728	47.062	79.868	50.705	1.00	5.43	G
ATOM	13813	C	LEU	G	728	44.501	76.752	51.972	1.00	60.72	G
ATOM	13814	O	LEU	G	728	43.278	76.611	52.050	1.00	60.72	G
ATOM	13815	N	HIS	G	729	45.270	77.132	52.993	1.00	39.07	G
ATOM	13816	CA	HIS	G	729	44.740	77.352	54.346	1.00	39.07	G
ATOM	13817	CB	HIS	G	729	45.521	76.462	55.321	1.00	20.64	G
ATOM	13818	CG	HIS	G	729	45.291	76.786	56.759	1.00	20.64	G
ATOM	13819	CD2	HIS	G	729	46.134	76.772	57.814	1.00	20.64	G
ATOM	13820	ND1	HIS	G	729	44.064	77.171	57.254	1.00	20.64	G
ATOM	13821	CE1	HIS	G	729	44.162	77.381	58.554	1.00	20.64	G
ATOM	13822	NE2	HIS	G	729	45.409	77.144	58.919	1.00	20.64	G



ATOM	13823	C	HIS	G	729	44.767	78.826	54.792	1.00	39.07	G
ATOM	13824	O	HIS	G	729	45.839	79.420	54.937	1.00	39.07	G
ATOM	13825	N	PRO	G	730	43.581	79.412	55.063	1.00	24.89	G
ATOM	13826	CD	PRO	G	730	42.423	78.677	55.568	1.00	6.55	G
ATOM	13827	CA	PRO	G	730	43.439	80.799	55.477	1.00	24.89	G
ATOM	13828	CB	PRO	G	730	42.062	80.829	56.102	1.00	6.55	G
ATOM	13829	CG	PRO	G	730	42.020	79.545	56.748	1.00	6.55	G
ATOM	13830	C	PRO	G	730	44.507	81.276	56.420	1.00	24.89	G
ATOM	13831	O	PRO	G	730	44.875	82.443	56.366	1.00	24.89	G
ATOM	13832	N	LEU	G	731	45.026	80.420	57.288	1.00	27.73	G
ATOM	13833	CA	LEU	G	731	46.059	80.943	58.162	1.00	27.73	G
ATOM	13834	CB	LEU	G	731	46.388	79.987	59.301	1.00	6.67	G
ATOM	13835	CG	LEU	G	731	45.513	80.570	60.407	1.00	6.67	G
ATOM	13836	CD1	LEU	G	731	45.547	79.790	61.728	1.00	6.67	G
ATOM	13837	CD2	LEU	G	731	45.989	82.000	60.599	1.00	6.67	G
ATOM	13838	C	LEU	G	731	47.306	81.323	57.408	1.00	27.73	G
ATOM	13839	O	LEU	G	731	47.825	82.424	57.575	1.00	27.73	G
ATOM	13840	N	VAL	G	732	47.777	80.448	56.536	1.00	25.75	G
ATOM	13841	CA	VAL	G	732	48.981	80.787	55.812	1.00	25.75	G
ATOM	13842	CB	VAL	G	732	49.443	79.641	54.877	1.00	22.98	G
ATOM	13843	CG1	VAL	G	732	50.201	80.201	53.696	1.00	22.98	G
ATOM	13844	CG2	VAL	G	732	50.369	78.698	55.640	1.00	22.98	G
ATOM	13845	C	VAL	G	732	48.911	82.095	55.035	1.00	25.75	G
ATOM	13846	O	VAL	G	732	49.847	82.869	55.146	1.00	25.75	G
ATOM	13847	N	CYS	G	733	47.836	82.369	54.287	1.00	25.89	G
ATOM	13848	CA	CYS	G	733	47.777	83.617	53.510	1.00	25.89	G
ATOM	13849	CB	CYS	G	733	46.400	84.289	53.614	1.00	40.39	G
ATOM	13850	SG	CYS	G	733	46.388	86.066	53.027	1.00	40.39	G
ATOM	13851	C	CYS	G	733	48.870	84.626	53.936	1.00	25.89	G
ATOM	13852	O	CYS	G	733	49.939	84.687	53.318	1.00	25.89	G
ATOM	13853	N	GLU	G	734	48.600	85.395	54.995	1.00	26.35	G
ATOM	13854	CA	GLU	G	734	49.537	86.388	55.541	1.00	26.35	G
ATOM	13855	CB	GLU	G	734	49.660	86.214	57.060	1.00	95.88	G
ATOM	13856	CG	GLU	G	734	48.382	86.468	57.808	1.00	95.88	G
ATOM	13857	CD	GLU	G	734	47.743	87.754	57.360	1.00	95.88	G
ATOM	13858	OE1	GLU	G	734	48.461	88.777	57.327	1.00	95.88	G
ATOM	13859	OE2	GLU	G	734	46.534	87.741	57.033	1.00	95.88	G
ATOM	13860	C	GLU	G	734	50.930	86.333	54.938	1.00	26.35	G
ATOM	13861	O	GLU	G	734	51.175	86.902	53.895	1.00	26.35	G
ATOM	13862	N	ALA	G	735	51.835	85.633	55.611	1.00	10.09	G
ATOM	13863	CA	ALA	G	735	53.206	85.498	55.160	1.00	10.09	G
ATOM	13864	CB	ALA	G	735	53.868	84.376	55.869	1.00	5.07	G
ATOM	13865	C	ALA	G	735	53.339	85.291	53.672	1.00	10.09	G
ATOM	13866	O	ALA	G	735	53.891	86.148	52.982	1.00	10.09	G
ATOM	13867	N	PHE	G	736	52.839	84.161	53.172	1.00	22.54	G
ATOM	13868	CA	PHE	G	736	52.941	83.842	51.737	1.00	22.54	G
ATOM	13869	CB	PHE	G	736	52.390	82.425	51.451	1.00	26.85	G
ATOM	13870	CG	PHE	G	736	52.978	81.341	52.358	1.00	26.85	G
ATOM	13871	CD1	PHE	G	736	53.090	81.545	53.758	1.00	26.85	G
ATOM	13872	CD2	PHE	G	736	53.337	80.093	51.848	1.00	26.85	G
ATOM	13873	CE1	PHE	G	736	53.549	80.521	54.637	1.00	26.85	G
ATOM	13874	CE2	PHE	G	736	53.798	79.067	52.732	1.00	26.85	G
ATOM	13875	CZ	PHE	G	736	53.891	79.296	54.129	1.00	26.85	G
ATOM	13876	C	PHE	G	736	52.233	84.899	50.893	1.00	22.54	G
ATOM	13877	O	PHE	G	736	52.726	85.314	49.848	1.00	22.54	G
ATOM	13878	N	ASN	G	737	51.085	85.354	51.366	1.00	43.47	G
ATOM	13879	CA	ASN	G	737	50.345	86.381	50.661	1.00	43.47	G
ATOM	13880	CB	ASN	G	737	51.310	87.464	50.175	1.00	31.04	G
ATOM	13881	CG	ASN	G	737	50.610	88.555	49.396	1.00	31.04	G
ATOM	13882	OD1	ASN	G	737	49.995	88.291	48.360	1.00	31.04	G
ATOM	13883	ND2	ASN	G	737	50.693	89.796	49.893	1.00	31.04	G
ATOM	13884	C	ASN	G	737	49.575	85.827	49.477	1.00	43.47	G
ATOM	13885	O	ASN	G	737	50.190	85.327	48.533	1.00	43.47	G
ATOM	13886	N	ALA	G	738	48.241	85.920	49.510	1.00	23.77	G
ATOM	13887	CA	ALA	G	738	47.450	85.416	48.388	1.00	23.77	G
ATOM	13888	CB	ALA	G	738	47.645	83.901	48.276	1.00	72.85	G
ATOM	13889	C	ALA	G	738	45.955	85.744	48.327	1.00	23.77	G
ATOM	13890	O	ALA	G	738	45.138	84.845	48.319	1.00	23.77	G
ATOM	13891	N	ASP	G	739	45.568	87.008	48.256	1.00	84.88	G
ATOM	13892	CA	ASP	G	739	44.137	87.278	48.165	1.00	84.88	G
ATOM	13893	CB	ASP	G	739	43.879	88.785	48.016	1.00	100.07	G
ATOM	13894	CG	ASP	G	739	44.843	89.460	47.056	1.00	100.07	G
ATOM	13895	OD1	ASP	G	739	46.057	89.500	47.354	1.00	100.07	G
ATOM	13896	OD2	ASP	G	739	44.381	89.958	46.006	1.00	100.07	G
ATOM	13897	C	ASP	G	739	43.553	86.501	46.971	1.00	84.88	G
ATOM	13898	O	ASP	G	739	43.701	86.918	45.821	1.00	84.88	G
ATOM	13899	N	PHE	G	740	42.905	85.369	47.253	1.00	5.65	G
ATOM	13900	CA	PHE	G	740	42.317	84.520	46.217	1.00	5.65	G
ATOM	13901	CB	PHE	G	740	41.488	83.404	46.839	1.00	13.82	G
ATOM	13902	CG	PHE	G	740	42.123	82.754	48.021	1.00	13.82	G
ATOM	13903	CD1	PHE	G	740	42.274	83.436	49.207	1.00	13.82	G
ATOM	13904	CD2	PHE	G	740	42.572	81.449	47.954	1.00	13.82	G
ATOM	13905	CE1	PHE	G	740	42.868	82.826	50.308	1.00	13.82	G
ATOM	13906	CE2	PHE	G	740	43.168	80.839	49.058	1.00	13.82	G



ATOM	13907	CZ	PHE	G	740	43.313	81.529	50.223	1.00	13.82	G
ATOM	13908	C	PHE	G	740	41.393	85.278	45.284	1.00	5.65	G
ATOM	13909	O	PHE	G	740	40.206	85.392	45.574	1.00	5.65	G
ATOM	13910	N	ASP	G	741	41.912	85.780	44.168	1.00	14.73	G
ATOM	13911	CA	ASP	G	741	41.091	86.510	43.187	1.00	14.73	G
ATOM	13912	CB	ASP	G	741	41.012	88.015	43.511	1.00	68.42	G
ATOM	13913	CG	ASP	G	741	42.381	88.672	43.653	1.00	68.42	G
ATOM	13914	OD1	ASP	G	741	43.400	87.991	43.428	1.00	68.42	G
ATOM	13915	OD2	ASP	G	741	42.434	89.875	43.995	1.00	68.42	G
ATOM	13916	C	ASP	G	741	41.694	86.305	41.807	1.00	14.73	G
ATOM	13917	O	ASP	G	741	41.600	87.163	40.914	1.00	14.73	G
ATOM	13918	N	GLY	G	742	42.314	85.136	41.661	1.00	35.12	G
ATOM	13919	CA	GLY	G	742	42.963	84.760	40.425	1.00	35.12	G
ATOM	13920	C	GLY	G	742	44.412	84.397	40.683	1.00	35.12	G
ATOM	13921	O	GLY	G	742	45.136	84.056	39.756	1.00	35.12	G
ATOM	13922	N	ASP	G	743	44.839	84.448	41.942	1.00	31.29	G
ATOM	13923	CA	ASP	G	743	46.231	84.156	42.286	1.00	31.29	G
ATOM	13924	CB	ASP	G	743	46.521	84.495	43.767	1.00	71.46	G
ATOM	13925	CG	ASP	G	743	46.512	86.019	44.050	1.00	71.46	G
ATOM	13926	OD1	ASP	G	743	47.067	86.790	43.231	1.00	71.46	G
ATOM	13927	OD2	ASP	G	743	45.965	86.449	45.094	1.00	71.46	G
ATOM	13928	C	ASP	G	743	46.613	82.721	41.983	1.00	31.29	G
ATOM	13929	O	ASP	G	743	45.757	81.844	41.929	1.00	31.29	G
ATOM	13930	N	GLN	G	744	47.911	82.506	41.776	1.00	17.67	G
ATOM	13931	CA	GLN	G	744	48.479	81.190	41.446	1.00	17.67	G
ATOM	13932	CB	GLN	G	744	48.826	81.135	39.957	1.00	50.63	G
ATOM	13933	CG	GLN	G	744	47.652	81.262	39.027	1.00	50.63	G
ATOM	13934	CD	GLN	G	744	48.052	81.012	37.591	1.00	50.63	G
ATOM	13935	OE1	GLN	G	744	48.747	80.045	37.298	1.00	50.63	G
ATOM	13936	NE2	GLN	G	744	47.611	81.877	36.687	1.00	50.63	G
ATOM	13937	C	GLN	G	744	49.740	80.795	42.237	1.00	17.67	G
ATOM	13938	O	GLN	G	744	50.767	81.473	42.178	1.00	17.67	G
ATOM	13939	N	MET	G	745	49.661	79.693	42.972	1.00	9.28	G
ATOM	13940	CA	MET	G	745	50.808	79.220	43.727	1.00	9.28	G
ATOM	13941	CB	MET	G	745	50.420	78.855	45.153	1.00	35.53	G
ATOM	13942	CG	MET	G	745	50.362	80.045	46.064	1.00	35.53	G
ATOM	13943	SD	MET	G	745	49.823	79.622	47.713	1.00	35.53	G
ATOM	13944	CE	MET	G	745	48.263	80.588	47.859	1.00	35.53	G
ATOM	13945	C	MET	G	745	51.302	78.001	42.994	1.00	9.28	G
ATOM	13946	O	MET	G	745	50.521	77.355	42.300	1.00	9.28	G
ATOM	13947										



ATOM	13991	N	SER	G	752	64.105	63.747	47.544	1.00	34.49	G
ATOM	13992	CA	SER	G	752	65.478	63.387	47.919	1.00	34.49	G
ATOM	13993	CB	SER	G	752	66.422	64.606	47.802	1.00	22.59	G
ATOM	13994	OG	SER	G	752	66.071	65.525	46.770	1.00	22.59	G
ATOM	13995	C	SER	G	752	65.532	62.886	49.357	1.00	34.49	G
ATOM	13996	O	SER	G	752	66.478	63.201	50.074	1.00	34.49	G
ATOM	13997	N	SER	G	753	64.542	62.092	49.764	1.00	28.54	G
ATOM	13998	CA	SER	G	753	64.461	61.602	51.149	1.00	28.54	G
ATOM	13999	CB	SER	G	753	65.237	60.297	51.378	1.00	15.37	G
ATOM	14000	OG	SER	G	753	65.300	60.000	52.775	1.00	15.37	G
ATOM	14001	C	SER	G	753	65.033	62.659	52.062	1.00	28.54	G
ATOM	14002	O	SER	G	753	64.301	63.472	52.604	1.00	28.54	G
ATOM	14003	N	PHE	G	754	66.347	62.643	52.223	1.00	39.13	G
ATOM	14004	CA	PHE	G	754	67.004	63.626	53.049	1.00	39.13	G
ATOM	14005	CB	PHE	G	754	68.463	63.757	52.646	1.00	77.81	G
ATOM	14006	CG	PHE	G	754	69.311	64.402	53.689	1.00	77.81	G
ATOM	14007	CD1	PHE	G	754	70.101	63.629	54.531	1.00	77.81	G
ATOM	14008	CD2	PHE	G	754	69.291	65.772	53.862	1.00	77.81	G
ATOM	14009	CE1	PHE	G	754	70.858	64.212	55.528	1.00	77.81	G
ATOM	14010	CE2	PHE	G	754	70.041	66.361	54.854	1.00	77.81	G
ATOM	14011	CZ	PHE	G	754	70.827	65.579	55.692	1.00	77.81	G
ATOM	14012	C	PHE	G	754	66.318	64.977	52.875	1.00	39.13	G
ATOM	14013	O	PHE	G	754	66.154	65.713	53.849	1.00	39.13	G
ATOM	14014	N	ALA	G	755	65.907	65.295	51.643	1.00	38.20	G
ATOM	14015	CA	ALA	G	755	65.231	66.570	51.347	1.00	38.20	G
ATOM	14016	CB	ALA	G	755	65.105	66.761	49.844	1.00	100.07	G
ATOM	14017	C	ALA	G	755	63.851	66.699	52.001	1.00	38.20	G
ATOM	14018	O	ALA	G	755	63.132	67.675	51.800	1.00	38.20	G
ATOM	14019	N	GLN	G	756	63.494	65.693	52.779	1.00	45.28	G
ATOM	14020	CA	GLN	G	756	62.237	65.669	53.487	1.00	45.28	G
ATOM	14021	CB	GLN	G	756	61.710	64.241	53.534	1.00	49.70	G
ATOM	14022	CG	GLN	G	756	60.226	64.101	53.381	1.00	49.70	G
ATOM	14023	CD	GLN	G	756	59.795	64.491	52.010	1.00	49.70	G
ATOM	14024	OE1	GLN	G	756	60.614	64.532	51.095	1.00	49.70	G
ATOM	14025	NE2	GLN	G	756	58.503	64.771	51.841	1.00	49.70	G
ATOM	14026	C	GLN	G	756	62.609	66.115	54.892	1.00	45.28	G
ATOM	14027	O	GLN	G	756	62.048	67.067	55.432	1.00	45.28	G
ATOM	14028	N	ALA	G	757	63.577	65.410	55.467	1.00	99.84	G
ATOM	14029	CA	ALA	G	757	64.059	65.686	56.810	1.00	99.84	G
ATOM	14030	CB	ALA	G	757	65.377	64.992	57.031	1.00	100.07	G
ATOM	14031	C	ALA	G	757	64.210	67.174	57.063	1.00	99.84	G
ATOM	14032	O	ALA	G	757	64.363	67.604	58.204	1.00	99.84	G
ATOM	14033	N	GLU	G	758	64.186	67.959	55.993	1.00	26.91	G
ATOM	14034	CA	GLU	G	758	64.295	69.403	56.117	1.00	26.91	G
ATOM	14035	CB	GLU	G	758	65.573	69.898	55.440	1.00	83.00	G
ATOM	14036	CG	GLU	G	758	65.950	69.148	54.180	1.00	83.00	G
ATOM	14037	CD	GLU	G	758	67.354	69.483	53.715	1.00	83.00	G
ATOM	14038	OE1	GLU	G	758	68.296	69.353	54.524	1.00	83.00	G
ATOM	14039	OE2	GLU	G	758	67.520	69.871	52.543	1.00	83.00	G
ATOM	14040	C	GLU	G	758	63.060	70.060	55.516	1.00	26.91	G
ATOM	14041	O	GLU	G	758	62.695	71.177	55.881	1.00	26.91	G
ATOM	14042	N	ALA	G	759	62.416	69.353	54.595	1.00	27.38	G
ATOM	14043	CA	ALA	G	759	61.210	69.857	53.968	1.00	27.38	G
ATOM	14044	CB	ALA	G	759	60.796	68.940	52.854	1.00	83.74	G
ATOM	14045	C	ALA	G	759	60.134	69.903	55.044	1.00	27.38	G
ATOM	14046	O	ALA	G	759	59.373	70.864	55.131	1.00	27.38	G
ATOM	14047	N	ARG	G	760	60.079	68.857	55.865	1.00	54.39	G
ATOM	14048	CA	ARG	G	760	59.104	68.784	56.952	1.00	54.39	G
ATOM	14049	CB	ARG	G	760	58.176	67.563	56.787	1.00	87.50	G
ATOM	14050	CG	ARG	G	760	58.863	66.196	56.844	1.00	87.50	G
ATOM	14051	CD	ARG	G	760	57.868	65.039	57.050	1.00	87.50	G
ATOM	14052	NE	ARG	G	760	57.108	65.177	58.293	1.00	87.50	G
ATOM	14053	CZ	ARG	G	760	56.325	64.235	58.808	1.00	87.50	G
ATOM	14054	NH1	ARG	G	760	56.194	63.068	58.191	1.00	87.50	G
ATOM	14055	NH2	ARG	G	760	55.669	64.465	59.939	1.00	87.50	G
ATOM	14056	C	ARG	G	760	59.818	68.723	58.307	1.00	54.39	G
ATOM	14057	O	ARG	G	760	60.204	67.655	58.778	1.00	54.39	G
ATOM	14058	N	ILE	G	761	59.977	69.892	58.920	1.00	83.15	G
ATOM	14059	CA	ILE	G	761	60.655	70.069	60.205	1.00	83.15	G
ATOM	14060	CB	ILE	G	761	62.057	69.383	60.248	1.00	23.93	G
ATOM	14061	CG2	ILE	G	761	63.066	70.245	61.019	1.00	23.93	G
ATOM	14062	CG1	ILE	G	761	61.957	67.994	60.872	1.00	23.93	G
ATOM	14063	CD	ILE	G	761	63.283	67.234	60.868	1.00	23.93	G
ATOM	14064	C	ILE	G	761	60.909	71.552	60.253	1.00	83.15	G
ATOM	14065	O	ILE	G	761	60.311	72.280	61.035	1.00	83.15	G
ATOM	14066	N	GLN	G	762	61.801	71.980	59.369	1.00	50.63	G
ATOM	14067	CA	GLN	G	762	62.194	73.361	59.283	1.00	50.63	G
ATOM	14068	CB	GLN	G	762	63.702	73.446	59.035	1.00	33.97	G
ATOM	14069	CG	GLN	G	762	64.280	72.394	58.087	1.00	33.97	G
ATOM	14070	CD	GLN	G	762	65.804	72.305	58.165	1.00	33.97	G
ATOM	14071	OE1	GLN	G	762	66.514	73.233	57.780	1.00	33.97	G
ATOM	14072	NE2	GLN	G	762	66.304	71.187	58.679	1.00	33.97	G
ATOM	14073	C	GLN	G	762	61.433	74.236	58.289	1.00	50.63	G
ATOM	14074	O	GLN	G	762	61.644	75.444	58.278	1.00	50.63	G



ATOM	14075	N	MET	G	763	60.574	73.669	57.442	1.00	75.54	G
ATOM	14076	CA	MET	G	763	59.792	74.528	56.542	1.00	75.54	G
ATOM	14077	CB	MET	G	763	60.440	74.702	55.156	1.00	42.15	G
ATOM	14078	CG	MET	G	763	61.334	73.611	54.621	1.00	42.15	G
ATOM	14079	SD	MET	G	763	62.296	74.380	53.277	1.00	42.15	G
ATOM	14080	CE	MET	G	763	61.831	73.444	51.911	1.00	42.15	G
ATOM	14081	C	MET	G	763	58.327	74.152	56.387	1.00	75.54	G
ATOM	14082	O	MET	G	763	57.639	74.623	55.489	1.00	75.54	G
ATOM	14083	N	LEU	G	764	57.859	73.309	57.293	1.00	19.27	G
ATOM	14084	CA	LEU	G	764	56.462	72.879	57.324	1.00	19.27	G
ATOM	14085	CB	LEU	G	764	56.300	71.674	58.242	1.00	7.79	G
ATOM	14086	CG	LEU	G	764	54.852	71.393	58.543	1.00	7.79	G
ATOM	14087	CD1	LEU	G	764	54.225	70.721	57.366	1.00	7.79	G
ATOM	14088	CD2	LEU	G	764	54.802	70.523	59.727	1.00	7.79	G
ATOM	14089	C	LEU	G	764	55.745	74.048	57.946	1.00	19.27	G
ATOM	14090	O	LEU	G	764	56.239	74.631	58.891	1.00	19.27	G
ATOM	14091	N	SER	G	765	54.578	74.391	57.459	1.00	20.09	G
ATOM	14092	CA	SER	G	765	53.952	75.537	58.048	1.00	20.09	G
ATOM	14093	CB	SER	G	765	52.547	75.737	57.499	1.00	41.15	G
ATOM	14094	OG	SER	G	765	51.797	74.553	57.602	1.00	41.15	G
ATOM	14095	C	SER	G	765	53.928	75.456	59.561	1.00	20.09	G
ATOM	14096	O	SER	G	765	54.512	76.305	60.218	1.00	20.09	G
ATOM	14097	N	ALA	G	766	53.318	74.422	60.131	1.00	8.14	G
ATOM	14098	CA	ALA	G	766	53.192	74.341	61.593	1.00	8.14	G
ATOM	14099	CB	ALA	G	766	52.370	73.110	61.989	1.00	27.34	G
ATOM	14100	C	ALA	G	766	54.440	74.416	62.467	1.00	8.14	G
ATOM	14101	O	ALA	G	766	54.320	74.354	63.687	1.00	8.14	G
ATOM	14102	N	HIS	G	767	55.631	74.541	61.893	1.00	56.35	G
ATOM	14103	CA	HIS	G	767	56.827	74.644	62.740	1.00	56.35	G
ATOM	14104	CB	HIS	G	767	57.864	73.552	62.418	1.00	60.80	G
ATOM	14105	CG	HIS	G	767	57.333	72.153	62.488	1.00	60.80	G
ATOM	14106	CD2	HIS	G	767	57.573	71.072	61.709	1.00	60.80	G
ATOM	14107	ND1	HIS	G	767	56.457	71.736	63.466	1.00	60.80	G
ATOM	14108	CE1	HIS	G	767	56.177	70.458	63.285	1.00	60.80	G
ATOM	14109	NE2	HIS	G	767	56.842	70.031	62.227	1.00	60.80	G
ATOM	14110	C	HIS	G	767	57.495	76.001	62.560	1.00	56.35	G
ATOM	14111	O	HIS	G	767	57.615	76.789	63.504	1.00	56.35	G
ATOM	14112	N	ASN	G	768	57.920	76.266	61.331	1.00	57.30	G
ATOM	14113	CA	ASN	G	768	58.612	77.497	61.013	1.00	57.30	G
ATOM	14114	CB	ASN	G	768	59.683	77.236	59.950	1.00	100.07	G
ATOM	14115	CG	ASN	G	768	60.693	78.371	59.838	1.00	100.07	G
ATOM	14116	OD1	ASN	G	768	60.412	79.416	59.248	1.00	100.07	G
ATOM	14117	ND2	ASN	G	768	61.878	78.168	60.416	1.00	100.07	G
ATOM	14118	C	ASN	G	768	57.704	78.608	60.555	1.00	57.30	G
ATOM	14119	O	ASN	G	768	58.066	79.373	59.668	1.00	57.30	G
ATOM	14120	N	LEU	G	769	56.520	78.701	61.142	1.00	57.03	G
ATOM	14121	CA	LEU	G	769	55.618	79.780	60.769	1.00	57.03	G
ATOM	14122	CB	LEU	G	769	54.343	79.244	60.091	1.00	100.07	G
ATOM	14123	CG	LEU	G	769	54.305	79.352	58.553	1.00	100.07	G
ATOM	14124	CD1	LEU	G	769	53.026	78.778	57.965	1.00	100.07	G
ATOM	14125	CD2	LEU	G	769	54.424	80.815	58.179	1.00	100.07	G
ATOM	14126	C	LEU	G	769	55.270	80.552	62.023	1.00	57.03	G
ATOM	14127	O	LEU	G	769	55.384	81.781	62.077	1.00	57.03	G
ATOM	14128	N	LEU	G	770	54.868	79.816	63.043	1.00	76.29	G
ATOM	14129	CA	LEU	G	770	54.500	80.419	64.304	1.00	76.29	G
ATOM	14130	CB	LEU	G	770	54.107	79.308	65.277	1.00	85.89	G
ATOM	14131	CG	LEU	G	770	53.001	78.347	64.805	1.00	85.89	G
ATOM	14132	CD1	LEU	G	770	52.638	78.556	63.339	1.00	85.89	G
ATOM	14133	CD2	LEU	G	770	53.476	76.927	65.023	1.00	85.89	G
ATOM	14134	C	LEU	G	770	55.709	81.214	64.803	1.00	76.29	G
ATOM	14135	O	LEU	G	770	56.746	80.632	65.153	1.00	76.29	G
ATOM	14136	N	SER	G	771	55.567	82.540	64.824	1.00	79.21	G
ATOM	14137	CA	SER	G	771	56.645	83.434	65.241	1.00	79.21	G
ATOM	14138	CB	SER	G	771	57.364	82.892	66.490	1.00	8.81	G
ATOM	14139	OG	SER	G	771	56.532	82.849	67.636	1.00	8.81	G
ATOM	14140	C	SER	G	771	57.626	83.483	64.066	1.00	79.21	G
ATOM	14141	O	SER	G	771	58.483	82.614	63.933	1.00	79.21	G
ATOM	14142	N	PRO	G	772	57.514	84.501	63.197	1.00	69.42	G
ATOM	14143	CD	PRO	G	772	56.537	85.600	63.224	1.00	100.07	G
ATOM	14144	CA	PRO	G	772	58.390	84.648	62.032	1.00	69.42	G
ATOM	14145	CB	PRO	G	772	57.597	85.572	61.133	1.00	100.07	G
ATOM	14146	CG	PRO	G	772	57.065	86.533	62.117	1.00	100.07	G
ATOM	14147	C	PRO	G	772	59.758	85.232	62.317	1.00	69.42	G
ATOM	14148	O	PRO	G	772	60.314	85.080	63.404	1.00	69.42	G
ATOM	14149	N	ALA	G	773	60.273	85.936	61.317	1.00	37.24	G
ATOM	14150	CA	ALA	G	773	61.582	86.536	61.413	1.00	37.24	G
ATOM	14151	CB	ALA	G	773	62.305	86.331	60.113	1.00	5.07	G
ATOM	14152	C	ALA	G	773	61.520	88.018	61.793	1.00	37.24	G
ATOM	14153	O	ALA	G	773	61.762	88.907	60.982	1.00	37.24	G
ATOM	14154	N	SER	G	774	61.165	88.246	63.057	1.00	52.69	G
ATOM	14155	CA	SER	G	774	61.052	89.566	63.696	1.00	52.69	G
ATOM	14156	CB	SER	G	774	60.253	90.550	62.852	1.00	39.48	G
ATOM	14157	OG	SER	G	774	61.139	91.185	61.940	1.00	39.48	G
ATOM	14158	C	SER	G	774	60.426	89.423	65.068	1.00	52.69	G



ATOM	14159	O	SER	G	774	59.937	90.391	65.643	1.00	52.69	G
ATOM	14160	N	GLY	G	775	60.437	88.178	65.549	1.00	44.33	G
ATOM	14161	CA	GLY	G	775	59.961	87.832	66.873	1.00	44.33	G
ATOM	14162	C	GLY	G	775	58.526	87.526	67.238	1.00	44.33	G
ATOM	14163	O	GLY	G	775	58.315	86.602	68.023	1.00	44.33	G
ATOM	14164	N	GLU	G	776	57.554	88.276	66.710	1.00	27.43	G
ATOM	14165	CA	GLU	G	776	56.147	88.065	67.082	1.00	27.43	G
ATOM	14166	CB	GLU	G	776	55.523	89.395	67.498	1.00	93.34	G
ATOM	14167	CG	GLU	G	776	55.346	90.388	66.386	1.00	93.34	G
ATOM	14168	CD	GLU	G	776	54.658	91.635	66.877	1.00	93.34	G
ATOM	14169	OE1	GLU	G	776	53.521	91.526	67.376	1.00	93.34	G
ATOM	14170	OE2	GLU	G	776	55.255	92.723	66.777	1.00	93.34	G
ATOM	14171	C	GLU	G	776	55.239	87.373	66.065	1.00	27.43	G
ATOM	14172	O	GLU	G	776	55.429	87.505	64.881	1.00	27.43	G
ATOM	14173	N	PRO	G	777	54.203	86.659	66.536	1.00	27.40	G
ATOM	14174	CD	PRO	G	777	53.578	86.842	67.855	1.00	16.98	G
ATOM	14175	CA	PRO	G	777	53.277	85.943	65.658	1.00	27.40	G
ATOM	14176	CB	PRO	G	777	51.962	85.949	66.450	1.00	16.98	G
ATOM	14177	CG	PRO	G	777	52.139	87.022	67.470	1.00	16.98	G
ATOM	14178	C	PRO	G	777	53.088	86.456	64.240	1.00	27.40	G
ATOM	14179	O	PRO	G	777	52.856	87.634	64.032	1.00	27.40	G
ATOM	14180	N	LEU	G	778	53.205	85.555	63.267	1.00	23.68	G
ATOM	14181	CA	LEU	G	778	52.998	85.886	61.863	1.00	23.68	G
ATOM	14182	CB	LEU	G	778	54.217	85.521	61.027	1.00	5.44	G
ATOM	14183	CG	LEU	G	778	54.227	85.722	59.508	1.00	5.44	G
ATOM	14184	CD1	LEU	G	778	52.972	86.414	59.067	1.00	5.44	G
ATOM	14185	CD2	LEU	G	778	55.450	86.545	59.083	1.00	5.44	G
ATOM	14186	C	LEU	G	778	51.817	85.017	61.480	1.00	23.68	G
ATOM	14187	O	LEU	G	778	51.045	85.367	60.601	1.00	23.68	G
ATOM	14188	N	ALA	G	779	51.673	83.880	62.163	1.00	27.77	G
ATOM	14189	CA	ALA	G	779	50.549	82.972	61.921	1.00	27.77	G
ATOM	14190	CB	ALA	G	779	50.931	81.548	62.305	1.00	41.16	G
ATOM	14191	C	ALA	G	779	49.364	83.443	62.772	1.00	27.77	G
ATOM	14192	O	ALA	G	779	48.674	82.643	63.404	1.00	27.77	G
ATOM	14193	N	LYS	G	780	49.140	84.753	62.797	1.00	5.38	G
ATOM	14194	CA	LYS	G	780	48.051	85.290	63.594	1.00	5.38	G
ATOM	14195	CB	LYS	G	780	48.168	86.816	63.816	1.00	69.97	G
ATOM	14196	CG	LYS	G	780	49.285	87.553	63.080	1.00	69.97	G
ATOM	14197	CD	LYS	G	780	49.016	87.666	61.589	1.00	69.97	G
ATOM	14198	CE	LYS	G	780	50.089	88.495	60.888	1.00	69.97	G
ATOM	14199	NZ	LYS	G	780	49.909	88.533	59.404	1.00	69.97	G
ATOM	14200	C	LYS	G	780	46.760	84.994	62.894	1.00	5.38	G
ATOM	14201	O	LYS	G	780	46.738	84.773	61.675	1.00	5.38	G
ATOM	14202	N	PRO	G	781	45.671	84.945	63.664	1.00	12.75	G
ATOM	14203	CD	PRO	G	781	45.693	84.795	65.129	1.00	21.48	G
ATOM	14204	CA	PRO	G	781	44.338	84.678	63.134	1.00	12.75	G
ATOM	14205	CB	PRO	G	781	43.561	84.248	64.383	1.00	21.48	G
ATOM	14206	CG	PRO	G	781	44.251	84.947	65.496	1.00	21.48	G
ATOM	14207	C	PRO	G	781	43.794	85.954	62.482	1.00	12.75	G
ATOM	14208	O	PRO	G	781	43.331	86.868	63.171	1.00	12.75	G
ATOM	14209	N	SER	G	782	43.846	86.005	61.153	1.00	11.11	G
ATOM	14210	CA	SER	G	782	43.402	87.188	60.423	1.00	11.11	G
ATOM	14211	CB	SER	G	782	43.968	87.192	59.005	1.00	100.07	G
ATOM	14212	OG	SER	G	782	43.216	86.339	58.165	1.00	100.07	G
ATOM	14213	C	SER	G	782	41.905	87.380	60.340	1.00	11.11	G
ATOM	14214	O	SER	G	782	41.138	86.734	61.056	1.00	11.11	G
ATOM	14215	N	ALA	G	783	41.523	88.300	59.458	1.00	51.63	G
ATOM	14216	CA	ALA	G	783	40.143	88.694	59.193	1.00	51.63	G
ATOM	14217	CB	ALA	G	783	40.061	89.331	57.802	1.00	58.44	G
ATOM	14218	C	ALA	G	783	39.150	87.550	59.294	1.00	51.63	G
ATOM	14219	O	ALA	G	783	39.518	86.429	59.615	1.00	51.63	G
ATOM	14220	N	ASP	G	784	37.882	87.849	59.037	1.00	50.55	G
ATOM	14221	CA	ASP	G	784	36.825	86.843	59.044	1.00	50.55	G
ATOM	14222	CB	ASP	G	784	36.885	86.065	57.713	1.00	57.04	G
ATOM	14223	CG	ASP	G	784	35.519	85.896	57.042	1.00	57.04	G
ATOM	14224	OD1	ASP	G	784	34.718	85.065	57.512	1.00	57.04	G
ATOM	14225	OD2	ASP	G	784	35.248	86.586	56.031	1.00	57.04	G
ATOM	14226	C	ASP	G	784	36.942	85.870	60.219	1.00	50.55	G
ATOM	14227	O	ASP	G	784	36.324	84.813	60.198	1.00	50.55	G
ATOM	14228	N	ILE	G	785	37.724	86.210	61.239	1.00	32.32	G
ATOM	14229	CA	ILE	G	785	37.899	85.312	62.382	1.00	32.32	G
ATOM	14230	CB	ILE	G	785	39.216	84.523	62.272	1.00	18.63	G
ATOM	14231	CG2	ILE	G	785	39.408	83.596	63.472	1.00	18.63	G
ATOM	14232	CG1	ILE	G	785	39.175	83.700	60.989	1.00	18.63	G
ATOM	14233	CD	ILE	G	785	40.440	82.951	60.689	1.00	18.63	G
ATOM	14234	C	ILE	G	785	37.940	86.166	63.619	1.00	32.32	G
ATOM	14235	O	ILE	G	785	37.302	85.880	64.653	1.00	32.32	G
ATOM	14236	N	ILE	G	786	38.722	87.224	63.524	1.00	16.56	G
ATOM	14237	CA	ILE	G	786	38.784	88.121	64.635	1.00	16.56	G
ATOM	14238	CB	ILE	G	786	39.721	89.272	64.332	1.00	16.24	G
ATOM	14239	CG2	ILE	G	786	39.651	90.296	65.456	1.00	16.24	G
ATOM	14240	CG1	ILE	G	786	41.144	88.720	64.118	1.00	16.24	G
ATOM	14241	CD	ILE	G	786	41.856	89.321	62.903	1.00	16.24	G
ATOM	14242	C	ILE	G	786	37.336	88.560	64.681	1.00	16.56	G



ATOM	14243	O	ILE	G	786	36.772	88.712	65.752	1.00	16.56	G
ATOM	14244	N	LEU	G	787	36.714	88.678	63.504	1.00	29.58	G
ATOM	14245	CA	LEU	G	787	35.304	89.086	63.422	1.00	29.58	G
ATOM	14246	CB	LEU	G	787	34.827	89.178	61.976	1.00	21.67	G
ATOM	14247	CG	LEU	G	787	33.699	90.214	61.913	1.00	21.67	G
ATOM	14248	CD1	LEU	G	787	33.549	90.786	60.513	1.00	21.67	G
ATOM	14249	CD2	LEU	G	787	32.427	89.577	62.384	1.00	21.67	G
ATOM	14250	C	LEU	G	787	34.413	88.109	64.175	1.00	29.58	G
ATOM	14251	O	LEU	G	787	33.492	88.493	64.914	1.00	29.58	G
ATOM	14252	N	GLY	G	788	34.690	86.833	63.974	1.00	35.27	G
ATOM	14253	CA	GLY	G	788	33.924	85.829	64.669	1.00	35.27	G
ATOM	14254	C	GLY	G	788	34.175	86.014	66.142	1.00	35.27	G
ATOM	14255	O	GLY	G	788	33.361	86.603	66.838	1.00	35.27	G
ATOM	14256	N	LEU	G	789	35.327	85.548	66.600	1.00	31.55	G
ATOM	14257	CA	LEU	G	789	35.681	85.621	68.008	1.00	31.55	G
ATOM	14258	CB	LEU	G	789	37.169	85.334	68.159	1.00	14.08	G
ATOM	14259	CG	LEU	G	789	37.534	83.938	67.655	1.00	14.08	G
ATOM	14260	CD1	LEU	G	789	39.001	83.644	67.897	1.00	14.08	G
ATOM	14261	CD2	LEU	G	789	36.686	82.918	68.366	1.00	14.08	G
ATOM	14262	C	LEU	G	789	35.303	86.912	68.744	1.00	31.55	G
ATOM	14263	O	LEU	G	789	35.149	86.915	69.976	1.00	31.55	G
ATOM	14264	N	TYR	G	790	35.146	88.008	68.003	1.00	24.55	G
ATOM	14265	CA	TYR	G	790	34.769	89.272	68.625	1.00	24.55	G
ATOM	14266	CB	TYR	G	790	34.790	90.401	67.606	1.00	16.62	G
ATOM	14267	CG	TYR	G	790	34.931	91.765	68.214	1.00	16.62	G
ATOM	14268	CD1	TYR	G	790	34.658	92.901	67.478	1.00	16.62	G
ATOM	14269	CE1	TYR	G	790	34.828	94.155	68.016	1.00	16.62	G
ATOM	14270	CD2	TYR	G	790	35.371	91.916	69.516	1.00	16.62	G
ATOM	14271	CE2	TYR	G	790	35.549	93.161	70.074	1.00	16.62	G
ATOM	14272	CZ	TYR	G	790	35.273	94.284	69.322	1.00	16.62	G
ATOM	14273	OH	TYR	G	790	35.457	95.541	69.878	1.00	16.62	G
ATOM	14274	C	TYR	G	790	33.350	89.074	69.112	1.00	24.55	G
ATOM	14275	O	TYR	G	790	33.121	88.743	70.273	1.00	24.55	G
ATOM	14276	N	TYR	G	791	32.409	89.262	68.192	1.00	26.86	G
ATOM	14277	CA	TYR	G	791	30.979	89.096	68.444	1.00	26.86	G
ATOM	14278	CB	TYR	G	791	30.298	88.618	67.166	1.00	36.91	G
ATOM	14279	CG	TYR	G	791	29.405	89.611	66.493	1.00	36.91	G
ATOM	14280	CD1	TYR	G	791	29.922	90.593	65.666	1.00	36.91	G
ATOM	14281	CE1	TYR	G	791	29.080	91.494	65.007	1.00	36.91	G
ATOM	14282	CD2	TYR	G	791	28.028	89.546	66.659	1.00	36.91	G
ATOM	14283	CE2	TYR	G	791	27.173	90.440	66.012	1.00	36.91	G
ATOM	14284	CZ	TYR	G	791	27.700	91.416	65.184	1.00	36.91	G
ATOM	14285	OH	TYR	G	791	26.853	92.313	64.542	1.00	36.91	G
ATOM	14286	C	TYR	G	791	30.660	88.091	69.562	1.00	26.86	G
ATOM	14287	O	TYR	G	791	29.657	88.229	70.256	1.00	26.86	G
ATOM	14288	N	ILE	G	792	31.501	87.070	69.710	1.00	27.61	G
ATOM	14289	CA	ILE	G	792	31.312	86.037	70.717	1.00	27.61	G
ATOM	14290	CB	ILE	G	792	32.137	84.780	70.365	1.00	95.47	G
ATOM	14291	CG2	ILE	G	792	31.735	83.605	71.237	1.00	95.47	G
ATOM	14292	CG1	ILE	G	792	31.895	84.407	68.911	1.00	95.47	G
ATOM	14293	CD	ILE	G	792	30.433	84.282	68.576	1.00	95.47	G
ATOM	14294	C	ILE	G	792	31.783	86.557	72.059	1.00	27.61	G
ATOM	14295	O	ILE	G	792	31.990	85.792	72.997	1.00	27.61	G
ATOM	14296	N	THR	G	793	31.956	87.864	72.166	1.00	29.38	G
ATOM	14297	CA	THR	G	793	32.438	88.415	73.419	1.00	29.38	G
ATOM	14298	CB	THR	G	793	33.967	88.257	73.523	1.00	26.93	G
ATOM	14299	OG1	THR	G	793	34.437	87.284	72.570	1.00	26.93	G
ATOM	14300	CG2	THR	G	793	34.340	87.825	74.924	1.00	26.93	G
ATOM	14301	C	THR	G	793	32.118	89.888	73.595	1.00	29.38	G
ATOM	14302	O	THR	G	793	32.703	90.727	72.939	1.00	29.38	G
ATOM	14303	N	GLN	G	794	31.194	90.218	74.477	1.00	34.55	G
ATOM	14304	CA	GLN	G	794	30.890	91.621	74.685	1.00	34.55	G
ATOM	14305	CB	GLN	G	794	30.151	92.188	73.469	1.00	41.57	G
ATOM	14306	CG	GLN	G	794	31.074	92.784	72.417	1.00	41.57	G
ATOM	14307	CD	GLN	G	794	31.762	94.075	72.880	1.00	41.57	G
ATOM	14308	OE1	GLN	G	794	32.257	94.173	74.012	1.00	41.57	G
ATOM	14309	NE2	GLN	G	794	31.808	95.069	71.989	1.00	41.57	G
ATOM	14310	C	GLN	G	794	30.095	91.910	75.949	1.00	34.55	G
ATOM	14311	O	GLN	G	794	30.647	92.188	77.021	1.00	34.55	G
ATOM	14312	N	VAL	G	795	28.790	91.812	75.785	1.00	69.62	G
ATOM	14313	CA	VAL	G	795	27.780	92.065	76.791	1.00	69.62	G
ATOM	14314	CB	VAL	G	795	28.338	92.647	78.104	1.00	60.61	G
ATOM	14315	CG1	VAL	G	795	27.197	93.133	78.987	1.00	60.61	G
ATOM	14316	CG2	VAL	G	795	29.097	91.565	78.863	1.00	60.61	G
ATOM	14317	C	VAL	G	795	27.038	93.105	75.999	1.00	69.62	G
ATOM	14318	O	VAL	G	795	27.174	93.143	74.776	1.00	69.62	G
ATOM	14319	N	ARG	G	796	26.280	93.975	76.634	1.00	47.34	G
ATOM	14320	CA	ARG	G	796	25.558	94.902	75.806	1.00	47.34	G
ATOM	14321	CB	ARG	G	796	24.277	94.237	75.307	1.00	79.01	G
ATOM	14322	CG	ARG	G	796	24.422	92.894	74.644	1.00	79.01	G
ATOM	14323	CD	ARG	G	796	23.335	92.822	73.633	1.00	79.01	G
ATOM	14324	NE	ARG	G	796	23.152	91.514	73.040	1.00	79.01	G
ATOM	14325	CZ	ARG	G	796	22.372	91.311	71.986	1.00	79.01	G
ATOM	14326	NH1	ARG	G	796	21.735	92.339	71.441	1.00	79.01	G



ATOM	14327	NH2	ARG	G	796	22.216	90.093	71.485	1.00	79.01	G
ATOM	14328	C	ARG	G	796	25.181	96.245	76.383	1.00	47.34	G
ATOM	14329	O	ARG	G	796	25.818	96.790	77.286	1.00	47.34	G
ATOM	14330	N	ALA	G	797	24.097	96.743	75.802	1.00	99.50	G
ATOM	14331	CA	ALA	G	797	23.480	98.002	76.121	1.00	99.50	G
ATOM	14332	CB	ALA	G	797	24.266	99.138	75.489	1.00	100.07	G
ATOM	14333	C	ALA	G	797	22.105	97.880	75.478	1.00	99.50	G
ATOM	14334	O	ALA	G	797	21.772	98.619	74.549	1.00	99.50	G
ATOM	14335	N	ALA	G	798	21.327	96.903	75.937	1.00	95.05	G
ATOM	14336	CA	ALA	G	798	19.981	96.720	75.410	1.00	95.05	G
ATOM	14337	CB	ALA	G	798	19.300	95.529	76.088	1.00	12.09	G
ATOM	14338	C	ALA	G	798	19.280	98.029	75.769	1.00	95.05	G
ATOM	14339	O	ALA	G	798	18.342	98.474	75.095	1.00	95.05	G
ATOM	14340	N	ALA	G	799	19.785	98.635	76.845	1.00	100.07	G
ATOM	14341	CA	ALA	G	799	19.321	99.911	77.383	1.00	100.07	G
ATOM	14342	CB	ALA	G	799	19.820	101.055	76.495	1.00	87.62	G
ATOM	14343	C	ALA	G	799	17.819	100.069	77.628	1.00	100.07	G
ATOM	14344	O	ALA	G	799	16.985	99.772	76.762	1.00	100.07	G
ATOM	14345	N	ALA	G	800	17.498	100.543	78.831	1.00	99.90	G
ATOM	14346	CA	ALA	G	800	16.128	100.814	79.244	1.00	99.90	G
ATOM	14347	CB	ALA	G	800	15.501	99.598	79.861	1.00	61.20	G
ATOM	14348	C	ALA	G	800	16.229	101.932	80.266	1.00	99.90	G
ATOM	14349	O	ALA	G	800	15.510	102.930	80.181	1.00	99.90	G
ATOM	14350	N	GLY	G	801	17.140	101.770	81.224	1.00	82.64	G
ATOM	14351	CA	GLY	G	801	17.329	102.799	82.235	1.00	82.64	G
ATOM	14352	C	GLY	G	801	17.659	102.317	83.631	1.00	82.64	G
ATOM	14353	O	GLY	G	801	16.895	101.563	84.221	1.00	82.64	G
ATOM	14354	N	ALA	G	802	18.787	102.764	84.172	1.00	81.10	G
ATOM	14355	CA	ALA	G	802	19.189	102.352	85.511	1.00	81.10	G
ATOM	14356	CB	ALA	G	802	20.520	103.002	85.881	1.00	95.74	G
ATOM	14357	C	ALA	G	802	18.131	102.673	86.575	1.00	81.10	G
ATOM	14358	O	ALA	G	802	17.716	103.823	86.743	1.00	81.10	G
ATOM	14359	N	GLY	G	803	17.695	101.635	87.283	1.00	90.76	G
ATOM	14360	CA	GLY	G	803	16.710	101.797	88.335	1.00	90.76	G
ATOM	14361	C	GLY	G	803	17.317	101.362	89.660	1.00	90.76	G
ATOM	14362	O	GLY	G	803	18.458	100.899	89.707	1.00	90.76	G
ATOM	14363	N	ALA	G	804	16.555	101.508	90.741	1.00	100.07	G
ATOM	14364	CA	ALA	G	804	17.027	101.128	92.075	1.00	100.07	G
ATOM	14365	CB	ALA	G	804	16.739	102.251	93.079	1.00	100.07	G
ATOM	14366	C	ALA	G	804	16.424	99.814	92.579	1.00	100.07	G
ATOM	14367	O	ALA	G	804	15.292	99.441	92.241	1.00	100.07	G
ATOM	14368	N	ALA	G	805	17.199	99.122	93.403	1.00	100.07	G
ATOM	14369	CA	ALA	G	805	16.786	97.853	93.966	1.00	100.07	G
ATOM	14370	CB	ALA	G	805	17.143	96.723	93.017	1.00	100.07	G
ATOM	14371	C	ALA	G	805	17.550	97.702	95.257	1.00	100.07	G
ATOM	14372	O	ALA	G	805	17.021	97.208	96.251	1.00	100.07	G
ATOM	14373	N	ALA	G	806	18.804	98.147	95.220	1.00	89.04	G
ATOM	14374	CA	ALA	G	806	19.717	98.081	96.362	1.00	89.04	G
ATOM	14375	CB	ALA	G	806	19.110	98.779	97.578	1.00	100.07	G
ATOM	14376	C	ALA	G	806	19.995	96.622	96.676	1.00	89.04	G
ATOM	14377	O	ALA	G	806	20.928	96.298	97.417	1.00	89.04	G
ATOM	14378	N	ALA	G	807	19.172	95.758	96.085	1.00	100.07	G
ATOM	14379	CA	ALA	G	807	19.266	94.314	96.266	1.00	100.07	G
ATOM	14380	CB	ALA	G	807	19.533	93.989	97.738	1.00	100.07	G
ATOM	14381	C	ALA	G	807	18.015	93.553	95.780	1.00	100.07	G
ATOM	14382	O	ALA	G	807	16.881	93.842	96.188	1.00	100.07	G
ATOM	14383	N	ALA	G	808	18.256	92.575	94.908	1.00	100.07	G
ATOM	14384	CA	ALA	G	808	17.234	91.712	94.324	1.00	100.07	G
ATOM	14385	CB	ALA	G	808	17.155	90.424	95.117	1.00	18.34	G
ATOM	14386	C	ALA	G	808	15.836	92.291	94.139	1.00	100.07	G
ATOM	14387	O	ALA	G	808	15.530	92.860	93.089	1.00	100.07	G
ATOM	14388	N	ALA	G	809	14.987	92.141	95.150	1.00	92.40	G
ATOM	14389	CA	ALA	G	809	13.612	92.618	95.060	1.00	92.40	G
ATOM	14390	CB	ALA	G	809	13.579	94.135	94.867	1.00	85.72	G
ATOM	14391	C	ALA	G	809	12.973	91.905	93.862	1.00	92.40	G
ATOM	14392	O	ALA	G	809	13.635	91.126	93.165	1.00	92.40	G
ATOM	14393	N	ALA	G	810	11.692	92.156	93.621	1.00	99.97	G
ATOM	14394	CA	ALA	G	810	11.010	91.508	92.507	1.00	99.97	G
ATOM	14395	CB	ALA	G	810	9.553	91.232	92.867	1.00	100.07	G
ATOM	14396	C	ALA	G	810	11.090	92.336	91.236	1.00	99.97	G
ATOM	14397	O	ALA	G	810	10.547	91.943	90.208	1.00	99.97	G
ATOM	14398	N	ALA	G	811	11.769	93.480	91.310	1.00	87.38	G
ATOM	14399	CA	ALA	G	811	11.933	94.353	90.151	1.00	87.38	G
ATOM	14400	CB	ALA	G	811	12.874	95.495	90.475	1.00	86.01	G
ATOM	14401	C	ALA	G	811	12.492	93.531	89.000	1.00	87.38	G
ATOM	14402	O	ALA	G	811	12.590	94.010	87.868	1.00	87.38	G
ATOM	14403	N	ALA	G	812	12.880	92.294	89.312	1.00	100.07	G
ATOM	14404	CA	ALA	G	812	13.397	91.377	88.309	1.00	100.07	G
ATOM	14405	CB	ALA	G	812	13.622	89.971	88.921	1.00	22.09	G
ATOM	14406	C	ALA	G	812	12.292	91.343	87.257	1.00	100.07	G
ATOM	14407	O	ALA	G	812	12.359	92.051	86.249	1.00	100.07	G
ATOM	14408	N	ALA	G	813	11.259	90.549	87.516	1.00	77.38	G
ATOM	14409	CA	ALA	G	813	10.137	90.454	86.593	1.00	77.38	G
ATOM	14410	CB	ALA	G	813	9.417	89.119	86.760	1.00	100.07	G



ATOM	14411	C	ALA	G	813	9.174	91.602	86.837	1.00	77.38	G
ATOM	14412	O	ALA	G	813	8.318	91.879	85.999	1.00	77.38	G
ATOM	14413	N	ALA	G	814	9.308	92.263	87.988	1.00	98.94	G
ATOM	14414	CA	ALA	G	814	8.441	93.394	88.314	1.00	98.94	G
ATOM	14415	CB	ALA	G	814	8.872	94.060	89.609	1.00	60.22	G
ATOM	14416	C	ALA	G	814	8.634	94.349	87.170	1.00	98.94	G
ATOM	14417	O	ALA	G	814	7.774	95.176	86.868	1.00	98.94	G
ATOM	14418	N	ALA	G	815	9.795	94.213	86.543	1.00100.07		G
ATOM	14419	CA	ALA	G	815	10.169	95.025	85.405	1.00100.07		G
ATOM	14420	CB	ALA	G	815	11.559	95.595	85.616	1.00100.07		G
ATOM	14421	C	ALA	G	815	10.151	94.110	84.194	1.00100.07		G
ATOM	14422	O	ALA	G	815	9.588	94.445	83.148	1.00100.07		G
ATOM	14423	N	ALA	G	816	10.782	92.951	84.345	1.00	69.38	G
ATOM	14424	CA	ALA	G	816	10.810	91.985	83.268	1.00	69.38	G
ATOM	14425	CB	ALA	G	816	11.576	90.745	83.684	1.00100.07		G
ATOM	14426	C	ALA	G	816	9.352	91.653	83.034	1.00	69.38	G
ATOM	14427	O	ALA	G	816	8.793	90.752	83.668	1.00	69.38	G
ATOM	14428	N	ALA	G	817	8.740	92.416	82.137	1.00100.07		G
ATOM	14429	CA	ALA	G	817	7.335	92.256	81.788	1.00100.07		G
ATOM	14430	CB	ALA	G	817	6.468	92.273	83.047	1.00100.07		G
ATOM	14431	C	ALA	G	817	6.952	93.413	80.874	1.00100.07		G
ATOM	14432	O	ALA	G	817	5.852	93.436	80.317	1.00100.07		G
ATOM	14433	N	ALA	G	818	7.877	94.365	80.744	1.00	83.84	G
ATOM	14434	CA	ALA	G	818	7.718	95.560	79.913	1.00	83.84	G
ATOM	14435	CB	ALA	G	818	6.302	96.119	80.026	1.00100.07		G
ATOM	14436	C	ALA	G	818	8.723	96.608	80.375	1.00	83.84	G
ATOM	14437	O	ALA	G	818	8.722	97.012	81.541	1.00	83.84	G
ATOM	14438	N	GLY	G	819	9.585	97.038	79.459	1.00	92.75	G
ATOM	14439	CA	GLY	G	819	10.585	98.037	79.794	1.00	92.75	G
ATOM	14440	C	GLY	G	819	11.473	97.667	80.972	1.00	92.75	G
ATOM	14441	O	GLY	G	819	11.377	96.567	81.517	1.00	92.75	G
ATOM	14442	N	ALA	G	820	12.345	98.594	81.358	1.00	71.25	G
ATOM	14443	CA	ALA	G	820	13.262	98.387	82.475	1.00	71.25	G
ATOM	14444	CB	ALA	G	820	12.479	98.234	83.759	1.00	78.61	G
ATOM	14445	C	ALA	G	820	14.178	97.183	82.286	1.00	71.25	G
ATOM	14446	O	ALA	G	820	14.258	96.322	83.164	1.00	71.25	G
ATOM	14447	N	ALA	G	821	14.881	97.149	81.150	1.00100.07		G
ATOM	14448	CA	ALA	G	821	15.809	96.063	80.788	1.00100.07		G
ATOM	14449	CB	ALA	G	821	16.166	96.157	79.296	1.00100.07		G
ATOM	14450	C	ALA	G	821	17.099	95.975	81.618	1.00100.07		G
ATOM	14451	O	ALA	G	821	17.278	96.694	82.605	1.00100.07		G
ATOM	14452	N	ALA	G	822	17.999	95.089	81.196	1.00100.07		G
ATOM	14453	CA	ALA	G	822	19.264	94.872	81.899	1.00100.07		G
ATOM	14454	CB	ALA	G	822	19.765	93.457	81.611	1.00100.07		G
ATOM	14455	C	ALA	G	822	20.361	95.897	81.574	1.00100.07		G
ATOM	14456	O	ALA	G	822	21.342	95.577	80.890	1.00100.07		G
ATOM	14457	N	ALA	G	823	20.206	97.118	82.082	1.00	99.87	G
ATOM	14458	CA	ALA	G	823	21.179	98.177	81.831	1.00	99.87	G
ATOM	14459	CB	ALA	G	823	20.653	99.114	80.741	1.00100.07		G
ATOM	14460	C	ALA	G	823	21.493	98.973	83.094	1.00	99.87	G
ATOM	14461	O	ALA	G	823	21.013	100.096	83.251	1.00	99.87	G
ATOM	14462	N	ALA	G	824	22.302	98.387	83.978	1.00100.07		G
ATOM	14463	CA	ALA	G	824	22.710	98.998	85.251	1.00100.07		G
ATOM	14464	CB	ALA	G	824	22.729	100.523	85.143	1.00	59.03	G
ATOM	14465	C	ALA	G	824	21.851	98.569	86.449	1.00100.07		G
ATOM	14466	O	ALA	G	824	22.259	97.685	87.200	1.00100.07		G
ATOM	14467	N	ALA	G	825	20.676	99.184	86.622	1.00	78.72	G
ATOM	14468	CA	ALA	G	825	19.775	98.866	87.742	1.00	78.72	G
ATOM	14469	CB	ALA	G	825	18.897	97.659	87.411	1.00	5.07	G
ATOM	14470	C	ALA	G	825	20.590	98.589	89.001	1.00	78.72	G
ATOM	14471	O	ALA	G	825	21.112	97.487	89.189	1.00	78.72	G
ATOM	14472	N	ALA	G	826	20.673	99.594	89.866	1.00100.07		G
ATOM	14473	CA	ALA	G	826	21.458	99.524	91.096	1.00100.07		G
ATOM	14474	CB	ALA	G	826	21.509	100.907	91.732	1.00100.07		G
ATOM	14475	C	ALA	G	826	21.106	98.491	92.165	1.00100.07		G
ATOM	14476	O	ALA	G	826	20.024	97.899	92.183	1.00100.07		G
ATOM	14477	N	ALA	G	827	22.073	98.302	93.058	1.00100.00		G
ATOM	14478	CA	ALA	G	827	21.997	97.393	94.199	1.00100.00		G
ATOM	14479	CB	ALA	G	827	21.977	95.938	93.736	1.00	59.82	G
ATOM	14480	C	ALA	G	827	23.269	97.697	94.995	1.00100.00		G
ATOM	14481	O	ALA	G	827	23.587	98.868	95.211	1.00100.00		G
ATOM	14482	N	ALA	G	828	23.996	96.667	95.426	1.00100.07		G
ATOM	14483	CA	ALA	G	828	25.246	96.877	96.172	1.00100.07		G
ATOM	14484	CB	ALA	G	828	25.485	95.734	97.170	1.00100.07		G
ATOM	14485	C	ALA	G	828	26.393	96.951	95.161	1.00100.07		G
ATOM	14486	O	ALA	G	828	27.516	97.357	95.491	1.00100.07		G
ATOM	14487	N	ALA	G	829	26.072	96.543	93.930	1.00100.07		G
ATOM	14488	CA	ALA	G	829	26.980	96.545	92.782	1.00100.07		G
ATOM	14489	CB	ALA	G	829	27.730	95.209	92.674	1.00	46.71	G
ATOM	14490	C	ALA	G	829	26.099	96.757	91.548	1.00100.07		G
ATOM	14491	O	ALA	G	829	26.581	97.145	90.484	1.00100.07		G
ATOM	14492	N	ALA	G	830	24.801	96.502	91.726	1.00	98.89	G
ATOM	14493	CA	ALA	G	830	23.780	96.640	90.683	1.00	98.89	G
ATOM	14494	CB	ALA	G	830	24.032	97.918	89.862	1.00	32.06	G



ATOM	14495	C	ALA	G	830	23.721	95.410	89.767	1.00	98.89	G
ATOM	14496	N	ALA	G	830	24.370	94.395	90.037	1.00	98.89	G
ATOM	14497	O	GLY	G	831	22.918	95.489	88.707	1.00	99.91	G
ATOM	14498	CA	GLY	G	831	22.836	94.380	87.769	1.00	99.91	G
ATOM	14499	C	GLY	G	831	21.501	93.698	87.547	1.00	99.91	G
ATOM	14500	O	GLY	G	831	20.659	93.637	88.437	1.00	99.91	G
ATOM	14501	N	ALA	G	832	21.316	93.177	86.339	1.00100.01	G	G
ATOM	14502	CA	ALA	G	832	20.098	92.467	85.977	1.00100.01	G	G
ATOM	14503	CB	ALA	G	832	19.354	93.219	84.891	1.00	84.40	G
ATOM	14504	C	ALA	G	832	20.487	91.072	85.490	1.00100.01	G	G
ATOM	14505	O	ALA	G	832	19.935	90.551	84.517	1.00100.01	G	G
ATOM	14506	N	ALA	G	833	21.476	90.495	86.165	1.00	78.13	G
ATOM	14507	CA	ALA	G	833	21.956	89.155	85.865	1.00	78.13	G
ATOM	14508	CB	ALA	G	833	23.428	89.170	85.624	1.00	20.38	G
ATOM	14509	C	ALA	G	833	21.642	88.378	87.127	1.00	78.13	G
ATOM	14510	O	ALA	G	833	22.520	87.767	87.744	1.00	78.13	G
ATOM	14511	N	ALA	G	934	20.370	88.444	87.512	1.00100.07	G	G
ATOM	14512	CA	ALA	G	834	19.857	87.781	88.701	1.00100.07	G	G
ATOM	14513	CB	ALA	G	834	18.708	88.588	89.276	1.00	59.74	G
ATOM	14514	C	ALA	G	834	19.395	86.365	88.372	1.00100.07	G	G
ATOM	14515	O	ALA	G	834	19.479	85.469	89.213	1.00100.07	G	G
ATOM	14516	N	ALA	G	835	18.898	86.175	87.151	1.00	61.36	G
ATOM	14517	CA	ALA	G	835	18.444	84.865	86.685	1.00	61.36	G
ATOM	14518	CB	ALA	G	835	17.337	85.047	85.653	1.00	96.27	G
ATOM	14519	C	ALA	G	835	19.635	84.101	86.071	1.00	61.36	G
ATOM	14520	O	ALA	G	835	19.711	83.913	84.846	1.00	61.36	G
ATOM	14521	N	ALA	G	836	20.565	83.679	86.932	1.00	43.72	G
ATOM	14522	CA	ALA	G	836	21.767	82.962	86.507	1.00	43.72	G
ATOM	14523	CB	ALA	G	836	22.849	83.953	86.087	1.00	50.53	G
ATOM	14524	C	ALA	G	836	22.327	82.013	87.571	1.00	43.72	G
ATOM	14525	O	ALA	G	836	22.268	82.277	88.777	1.00	43.72	G
ATOM	14526	N	GLY	G	837	22.879	80.904	87.087	1.00	85.16	G
ATOM	14527	CA	GLY	G	837	23.466	79.883	87.938	1.00	85.16	G
ATOM	14528	C	GLY	G	837	24.560	79.178	87.153	1.00	85.16	G
ATOM	14529	O	GLY	G	837	24.566	79.228	85.918	1.00	85.16	G
ATOM	14530	N	ALA	G	838	25.478	78.517	87.852	1.00	66.54	G
ATOM	14531	CA	ALA	G	838	26.583	77.838	87.185	1.00	66.54	G
ATOM	14532	CB	ALA	G	838	27.829	78.693	87.277	1.00100.07	G	G
ATOM	14533	C	ALA	G	838	26.873	76.444	87.727	1.00	66.54	G
ATOM	14534	O	ALA	G	838	26.427	76.094	88.814	1.00	66.54	G
ATOM	14535	N									



ATOM	14579	O	ALA	G	847	25.814	73.082	79.550	1.00	82.66	G
ATOM	14580	N	ALA	G	848	25.950	73.897	81.641	1.00	72.60	G
ATOM	14581	CA	ALA	G	848	24.516	74.144	81.748	1.00	72.60	G
ATOM	14582	CB	ALA	G	848	24.069	73.945	83.187	1.00	94.69	G
ATOM	14583	C	ALA	G	848	24.142	75.551	81.272	1.00	72.60	G
ATOM	14584	O	ALA	G	848	22.965	75.870	81.111	1.00	72.60	G
ATOM	14585	N	ALA	G	849	25.150	76.385	81.044	1.00	34.26	G
ATOM	14586	CA	ALA	G	849	24.931	77.754	80.602	1.00	34.26	G
ATOM	14587	CB	ALA	G	849	25.918	78.677	81.287	1.00	39.16	G
ATOM	14588	C	ALA	G	849	25.065	77.877	79.092	1.00	34.26	G
ATOM	14589	O	ALA	G	849	24.208	78.451	78.427	1.00	34.26	G
ATOM	14590	N	ALA	G	850	26.153	77.355	78.544	1.00	60.24	G
ATOM	14591	CA	ALA	G	850	26.334	77.430	77.106	1.00	60.24	G
ATOM	14592	CB	ALA	G	850	27.637	76.722	76.697	1.00	20.96	G
ATOM	14593	C	ALA	G	850	25.103	76.739	76.510	1.00	60.24	G
ATOM	14594	O	ALA	G	850	24.624	77.099	75.430	1.00	60.24	G
ATOM	14595	N	ALA	G	851	24.586	75.757	77.250	1.00	53.83	G
ATOM	14596	CA	ALA	G	851	23.400	75.007	76.849	1.00	53.83	G
ATOM	14597	CB	ALA	G	851	23.416	73.625	77.481	1.00	62.17	G
ATOM	14598	C	ALA	G	851	22.191	75.799	77.338	1.00	53.83	G
ATOM	14599	O	ALA	G	851	21.104	75.748	76.754	1.00	53.83	G
ATOM	14600	N	ALA	G	852	22.378	76.524	78.435	1.00	66.34	G
ATOM	14601	CA	ALA	G	852	21.299	77.348	78.939	1.00	66.34	G
ATOM	14602	CB	ALA	G	852	21.785	78.206	80.088	1.00	52.64	G
ATOM	14603	C	ALA	G	852	20.964	78.213	77.730	1.00	66.34	G
ATOM	14604	O	ALA	G	852	19.809	78.303	77.310	1.00	66.34	G
ATOM	14605	N	ALA	G	853	22.012	78.815	77.162	1.00	33.20	G
ATOM	14606	CA	ALA	G	853	21.914	79.670	75.982	1.00	33.20	G
ATOM	14607	CB	ALA	G	853	23.315	80.047	75.502	1.00	5.07	G
ATOM	14608	C	ALA	G	853	21.168	78.938	74.873	1.00	33.20	G
ATOM	14609	O	ALA	G	853	20.368	79.535	74.153	1.00	33.20	G
ATOM	14610	N	ALA	G	854	21.436	77.637	74.755	1.00	64.50	G
ATOM	14611	CA	ALA	G	854	20.827	76.804	73.724	1.00	64.50	G
ATOM	14612	CB	ALA	G	854	21.117	75.344	73.977	1.00	18.45	G
ATOM	14613	C	ALA	G	854	19.339	77.016	73.610	1.00	64.50	G
ATOM	14614	O	ALA	G	854	18.900	77.858	72.835	1.00	64.50	G
ATOM	14615	N	ALA	G	855	18.560	76.255	74.373	1.00	66.03	G
ATOM	14616	CA	ALA	G	855	17.107	76.387	74.317	1.00	66.03	G
ATOM	14617	CB	ALA	G	855	16.448	75.572	75.456	1.00	8.00	G
ATOM	14618	C	ALA	G	855	16.730	77.874	74.392	1.00	66.03	G
ATOM	14619	O	ALA	G	855</						



ATOM	14663	O	ALA	G	864	25.530	88.997	83.506	1.00	59.26	G
ATOM	14664	N	ALA	G	865	25.973	87.082	82.422	1.00	87.91	G
ATOM	14665	CA	ALA	G	865	25.331	86.219	83.406	1.00	87.91	G
ATOM	14666	CB	ALA	G	865	24.974	84.889	82.768	1.00	100.07	G
ATOM	14667	C	ALA	G	865	26.264	85.991	84.584	1.00	87.91	G
ATOM	14668	O	ALA	G	365	27.304	86.632	84.686	1.00	87.91	G
ATOM	14669	N	ALA	G	866	25.894	85.076	85.474	1.00	34.71	G
ATOM	14670	CA	ALA	G	866	26.731	84.788	86.632	1.00	34.71	G
ATOM	14671	CB	ALA	G	866	26.005	85.176	87.923	1.00	55.51	G
ATOM	14672	C	ALA	G	866	27.116	83.311	86.666	1.00	34.71	G
ATOM	14673	O	ALA	G	866	26.460	82.511	87.317	1.00	34.71	G
ATOM	14674	N	ALA	G	867	28.185	82.949	85.965	1.00	39.82	G
ATOM	14675	CA	ALA	G	867	28.634	81.561	85.932	1.00	39.82	G
ATOM	14676	CB	ALA	G	867	29.203	81.239	84.556	1.00	62.28	G
ATOM	14677	C	ALA	G	867	29.664	81.244	87.019	1.00	39.82	G
ATOM	14678	O	ALA	G	867	29.844	82.018	87.956	1.00	39.82	G
ATOM	14679	N	ALA	G	868	30.340	80.104	86.873	1.00	64.20	G
ATOM	14680	CA	ALA	G	868	31.349	79.655	87.835	1.00	64.20	G
ATOM	14681	CB	ALA	G	868	30.685	78.785	88.897	1.00	84.35	G
ATOM	14682	C	ALA	G	868	32.527	78.889	87.206	1.00	64.20	G
ATOM	14683	O	ALA	G	868	32.466	78.469	86.047	1.00	64.20	G
ATOM	14684	N	ALA	G	869	33.594	78.718	87.988	1.00	41.77	G
ATOM	14685	CA	ALA	G	869	34.805	78.000	87.569	1.00	41.77	G
ATOM	14686	CB	ALA	G	869	35.367	78.600	86.283	1.00	90.23	G
ATOM	14687	C	ALA	G	869	35.849	78.076	88.692	1.00	41.77	G
ATOM	14688	O	ALA	G	869	37.059	78.037	88.460	1.00	41.77	G
ATOM	14689	N	GLY	G	870	35.357	78.165	89.919	1.00	56.34	G
ATOM	14690	CA	GLY	G	870	36.231	78.268	91.065	1.00	56.34	G
ATOM	14691	C	GLY	G	870	35.805	79.529	91.785	1.00	56.34	G
ATOM	14692	O	GLY	G	870	36.219	79.789	92.918	1.00	56.34	G
ATOM	14693	N	ALA	G	871	34.957	80.309	91.114	1.00	42.45	G
ATOM	14694	CA	ALA	G	871	34.452	81.567	91.656	1.00	42.45	G
ATOM	14695	CB	ALA	G	871	35.491	82.675	91.471	1.00	45.12	G
ATOM	14696	C	ALA	G	871	33.166	81.952	90.947	1.00	42.45	G
ATOM	14697	O	ALA	G	871	32.849	81.396	89.901	1.00	42.45	G
ATOM	14698	N	ARG	G	872	32.423	82.894	91.523	1.00	72.53	G
ATOM	14699	CA	ARG	G	872	31.186	83.356	90.907	1.00	72.53	G
ATOM	14700	CB	ARG	G	872	30.175	83.831	91.951	1.00	99.90	G
ATOM	14701	CG	ARG	G	872	29.530	82.738	92.771	1.00	99.90	G
ATOM	14702	CD	ARG	G	872	28.335	83.297	93.520	1.00	99.90	G
ATOM	14703	NE	ARG	G							



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ATOM	14747	O	GLY	G	878	32.363	82.839	75.376	1.00	84.36	G
ATOM	14748	N	ALA	G	879	32.194	84.804	76.428	1.00	60.99	G
ATOM	14749	CA	ALA	G	879	33.540	84.726	76.942	1.00	60.99	G
ATOM	14750	CB	ALA	G	879	33.767	85.822	77.995	1.00	5.07	G
ATOM	14751	C	ALA	G	879	33.769	83.337	77.528	1.00	60.99	G
ATOM	14752	O	ALA	G	879	34.891	82.833	77.516	1.00	60.99	G
ATOM	14753	N	ILE	G	880	32.707	82.704	78.021	1.00	46.99	G
ATOM	14754	CA	ILE	G	880	32.842	81.369	78.595	1.00	46.99	G
ATOM	14755	CB	ILE	G	880	31.533	80.893	79.247	1.00	55.49	G
ATOM	14756	CG2	ILE	G	880	31.479	79.380	79.279	1.00	55.49	G
ATOM	14757	CG1	ILE	G	880	31.437	81.435	80.673	1.00	55.49	G
ATOM	14758	CD	ILE	G	880	32.559	80.961	81.591	1.00	55.49	G
ATOM	14759	C	ILE	G	880	33.247	80.381	77.518	1.00	46.99	G
ATOM	14760	O	ILE	G	880	34.223	79.652	77.664	1.00	46.99	G
ATOM	14761	N	LEU	G	881	32.483	80.356	76.435	1.00	31.65	G
ATOM	14762	CA	LEU	G	881	32.761	79.473	75.307	1.00	31.65	G
ATOM	14763	CB	LEU	G	881	31.857	79.866	74.146	1.00	22.42	G
ATOM	14764	CG	LEU	G	881	31.993	79.225	72.783	1.00	22.42	G
ATOM	14765	CD1	LEU	G	881	31.799	77.728	72.847	1.00	22.42	G
ATOM	14766	CD2	LEU	G	881	30.940	79.863	71.912	1.00	22.42	G
ATOM	14767	C	LEU	G	881	34.230	79.591	74.895	1.00	31.65	G
ATOM	14768	O	LEU	G	881	34.956	78.591	74.847	1.00	31.65	G
ATOM	14769	N	PHE	G	882	34.659	80.821	74.605	1.00	53.70	G
ATOM	14770	CA	PHE	G	882	36.039	81.093	74.220	1.00	53.70	G
ATOM	14771	CB	PHE	G	882	36.350	82.585	74.397	1.00	30.67	G
ATOM	14772	CG	PHE	G	882	37.700	83.006	73.861	1.00	30.67	G
ATOM	14773	CD1	PHE	G	882	37.843	84.216	73.194	1.00	30.67	G
ATOM	14774	CD2	PHE	G	882	38.829	82.209	74.025	1.00	30.67	G
ATOM	14775	CE1	PHE	G	882	39.095	84.622	72.694	1.00	30.67	G
ATOM	14776	CE2	PHE	G	882	40.080	82.612	73.526	1.00	30.67	G
ATOM	14777	CZ	PHE	G	882	40.209	83.816	72.862	1.00	30.67	G
ATOM	14778	C	PHE	G	882	36.969	80.249	75.086	1.00	53.70	G
ATOM	14779	O	PHE	G	882	37.839	79.553	74.568	1.00	53.70	G
ATOM	14780	N	ALA	G	883	36.781	80.308	76.401	1.00	51.90	G
ATOM	14781	CA	ALA	G	883	37.604	79.522	77.316	1.00	51.90	G
ATOM	14782	CB	ALA	G	883	36.893	79.343	78.654	1.00	44.21	G
ATOM	14783	C	ALA	G	883	37.882	78.158	76.694	1.00	51.90	G
ATOM	14784	O	ALA	G	883	38.882	77.991	75.987	1.00	51.90	G
ATOM	14785	N	ARG	G	884	36.999	77.192	76.960	1.00	28.10	G
ATOM	14786	CA	ARG	G	884	37.129	75.841	76.412	1.00	28.10	G
ATOM	14787	CB	ARG	G	884	35.761	75.270	76.046	1.00	80.63	G
ATOM	14788	CG	ARG	G	884	34.859	74.789	77.156	1.00	80.63	G
ATOM	14789	CD	ARG	G	884	33.455	74.718	76.573	1.00	80.63	G
ATOM	14790	NE	ARG	G	884	32.598	73.723	77.194	1.00	80.63	G
ATOM	14791	CZ	ARG	G	884	31.421	73.358	76.697	1.00	80.63	G
ATOM	14792	NH1	ARG	G	884	30.962	73.910	75.580	1.00	80.63	G
ATOM	14793	NH2	ARG	G	884	30.709	72.422	77.304	1.00	80.63	G
ATOM	14794	C	ARG	G	884	37.928	75.926	75.120	1.00	28.10	G
ATOM	14795	O	ARG	G	884	39.054	75.426	75.015	1.00	28.10	G
ATOM	14796	N	ILE	G	885	37.314	76.583	74.140	1.00	22.47	G
ATOM	14797	CA	ILE	G	885	37.914	76.737	72.835	1.00	22.47	G
ATOM	14798	CB	ILE	G	885	37.448	78.014	72.183	1.00	17.59	G
ATOM	14799	CG2	ILE	G	885	37.937	78.056	70.755	1.00	17.59	G
ATOM	14800	CG1	ILE	G	885	35.918	78.051	72.215	1.00	17.59	G
ATOM	14801	CD	ILE	G	885	35.296	79.288	71.628	1.00	17.59	G
ATOM	14802	C	ILE	G	885	39.407	76.744	73.015	1.00	22.47	G
ATOM	14803	O	ILE	G	885	40.105	75.903	72.453	1.00	22.47	G
ATOM	14804	N	VAL	G	886	39.882	77.674	73.834	1.00	15.70	G
ATOM	14805	CA	VAL	G	886	41.296	77.763	74.142	1.00	15.70	G
ATOM	14806	CB	VAL	G	886	41.651	79.115	74.750	1.00	52.29	G
ATOM	14807	CG1	VAL	G	886	42.900	78.989	75.600	1.00	52.29	G
ATOM	14808	CG2	VAL	G	886	41.883	80.114	73.651	1.00	52.29	G
ATOM	14809	C	VAL	G	886	41.627	76.677	75.149	1.00	15.70	G
ATOM	14810	O	VAL	G	886	42.557	75.902	74.959	1.00	15.70	G
ATOM	14811	N	GLY	G	887	40.862	76.627	76.227	1.00	50.56	G
ATOM	14812	CA	GLY	G	887	41.106	75.620	77.235	1.00	50.56	G
ATOM	14813	C	GLY	G	887	41.294	74.256	76.605	1.00	50.56	G
ATOM	14814	O	GLY	G	887	42.392	73.700	76.629	1.00	50.56	G
ATOM	14815	N	GLU	G	888	40.220	73.725	76.028	1.00	72.31	G
ATOM	14816	CA	GLU	G	888	40.242	72.414	75.393	1.00	72.31	G
ATOM	14817	CB	GLU	G	888	38.875	72.096	74.783	1.00	38.95	G
ATOM	14818	CG	GLU	G	888	37.821	71.769	75.829	1.00	38.95	G
ATOM	14819	CD	GLU	G	888	36.410	71.852	75.288	1.00	38.95	G
ATOM	14820	OE1	GLU	G	888	36.030	72.928	74.791	1.00	38.95	G
ATOM	14821	OE2	GLU	G	888	35.680	70.844	75.365	1.00	38.95	G
ATOM	14822	C	GLU	G	888	41.319	72.295	74.338	1.00	72.31	G
ATOM	14823	O	GLU	G	888	42.016	71.284	74.288	1.00	72.31	G
ATOM	14824	N	ALA	G	889	41.464	73.312	73.495	1.00	27.72	G
ATOM	14825	CA	ALA	G	889	42.493	73.242	72.468	1.00	27.72	G
ATOM	14826	CB	ALA	G	889	42.761	74.616	71.864	1.00	5.07	G
ATOM	14827	C	ALA	G	889	43.764	72.698	73.106	1.00	27.72	G
ATOM	14828	O	ALA	G	889	44.357	71.743	72.610	1.00	27.72	G
ATOM	14829	N	VAL	G	890	44.169	73.298	74.218	1.00	41.79	G
ATOM	14830	CA	VAL	G	890	45.371	72.871	74.922	1.00	41.79	G



ATOM	14831	CB	VAL	G	890	46.208	74.090	75.344	1.00	99.98	G
ATOM	14832	CG1	VAL	G	890	47.509	73.640	75.965	1.00	99.98	G
ATOM	14833	CG2	VAL	G	890	46.466	74.975	74.142	1.00	99.98	G
ATOM	14834	C	VAL	G	890	44.974	72.088	76.164	1.00	41.79	G
ATOM	14835	O	VAL	G	890	43.809	71.749	76.335	1.00	41.79	G
ATOM	14836	N	GLY	G	891	45.940	71.795	77.026	1.00	34.83	G
ATOM	14837	CA	GLY	G	891	45.633	71.076	78.246	1.00	34.83	G
ATOM	14838	C	GLY	G	891	44.673	71.865	79.128	1.00	34.83	G
ATOM	14839	O	GLY	G	891	45.069	72.408	80.172	1.00	34.83	G
ATOM	14840	N	ASP	G	892	43.411	71.910	78.696	1.00	63.47	G
ATOM	14841	CA	ASP	G	892	42.307	72.611	79.365	1.00	63.47	G
ATOM	14842	CB	ASP	G	892	41.343	71.594	80.013	1.00	100.07	G
ATOM	14843	CG	ASP	G	892	42.058	70.395	80.615	1.00	100.07	G
ATOM	14844	OD1	ASP	G	892	42.715	69.651	79.857	1.00	100.07	G
ATOM	14845	OD2	ASP	G	892	41.958	70.189	81.843	1.00	100.07	G
ATOM	14846	C	ASP	G	892	42.598	73.752	80.360	1.00	63.47	G
ATOM	14847	O	ASP	G	892	43.747	73.990	80.763	1.00	63.47	G
ATOM	14848	N	GLU	G	893	41.528	74.460	80.730	1.00	56.06	G
ATOM	14849	CA	GLU	G	893	41.584	75.595	81.645	1.00	56.06	G
ATOM	14850	CB	GLU	G	893	40.166	75.893	82.163	1.00	100.07	G
ATOM	14851	CG	GLU	G	893	39.183	76.338	81.054	1.00	100.07	G
ATOM	14852	CD	GLU	G	893	37.749	76.600	81.547	1.00	100.07	G
ATOM	14853	OE1	GLU	G	893	37.527	77.525	82.367	1.00	100.07	G
ATOM	14854	OE2	GLU	G	893	36.834	75.874	81.097	1.00	100.07	G
ATOM	14855	C	GLU	G	893	42.571	75.401	82.803	1.00	56.06	G
ATOM	14856	O	GLU	G	893	43.278	74.401	82.861	1.00	56.06	G
ATOM	14857	N	LYS	G	894	42.622	76.368	83.715	1.00	100.07	G
ATOM	14858	CA	LYS	G	894	43.530	76.331	84.866	1.00	100.07	G
ATOM	14859	CB	LYS	G	894	43.449	74.976	85.611	1.00	99.75	G
ATOM	14860	CG	LYS	G	894	44.554	73.940	85.291	1.00	99.75	G
ATOM	14861	CD	LYS	G	894	44.432	72.659	86.159	1.00	99.75	G
ATOM	14862	CE	LYS	G	894	45.514	71.610	85.830	1.00	99.75	G
ATOM	14863	NZ	LYS	G	894	45.452	70.399	86.710	1.00	99.75	G
ATOM	14864	C	LYS	G	894	44.957	76.591	84.392	1.00	100.07	G
ATOM	14865	O	LYS	G	894	45.714	77.327	85.027	1.00	100.07	G
ATOM	14866	N	VAL	G	895	45.311	75.980	83.268	1.00	49.89	G
ATOM	14867	CA	VAL	G	895	46.635	76.145	82.684	1.00	49.89	G
ATOM	14868	CB	VAL	G	895	47.090	74.855	81.939	1.00	99.66	G
ATOM	14869	CG1	VAL	G	895	48.600	74.852	81.779	1.00	99.66	G
ATOM	14870	CG2	VAL	G	895	46.629	73.609	82.693	1.00	9	



ATOM	14915	CG	GLN	G	901	43.910	90.058	77.731	1.00100.07	G
ATOM	14916	CD	GLN	G	901	43.896	91.438	77.088	1.00100.07	G
ATOM	14917	OE1	GLN	G	901	43.106	92.307	77.464	1.00100.07	G
ATOM	14918	NE2	GLN	G	901	44.779	91.645	76.122	1.00100.07	G
ATOM	14919	C	GLN	G	901	40.933	88.037	79.093	1.00 41.82	G
ATOM	14920	O	GLN	G	901	40.034	88.584	78.449	1.00 41.82	G
ATOM	14921	N	MET	G	902	40.726	87.225	80.132	1.00 36.52	G
ATOM	14922	CA	MET	G	902	39.404	86.840	80.608	1.00 36.52	G
ATOM	14923	CB	MET	G	902	39.459	86.357	82.058	1.00 73.44	G
ATOM	14924	CG	MET	G	902	39.471	84.823	82.184	1.00 73.44	G
ATOM	14925	SD	MET	G	902	38.474	83.969	80.908	1.00 73.44	G
ATOM	14926	CE	MET	G	902	36.839	84.599	81.236	1.00 73.44	G
ATOM	14927	C	MET	G	902	38.321	87.869	80.451	1.00 36.52	G
ATOM	14928	O	MET	G	902	38.546	89.069	80.611	1.00 36.52	G
ATOM	14929	N	ASP	G	903	37.127	87.369	80.152	1.00100.07	G
ATOM	14930	CA	ASP	G	903	35.982	88.222	79.906	1.00100.07	G
ATOM	14931	CB	ASP	G	903	35.318	88.688	81.202	1.00100.07	G
ATOM	14932	CG	ASP	G	903	34.097	87.852	81.555	1.00100.07	G
ATOM	14933	OD1	ASP	G	903	34.287	86.680	81.942	1.00100.07	G
ATOM	14934	OD2	ASP	G	903	32.958	88.363	81.431	1.00100.07	G
ATOM	14935	C	ASP	G	903	36.476	89.397	79.099	1.00100.07	G
ATOM	14936	O	ASP	G	903	36.743	89.223	77.907	1.00100.07	G
ATOM	14937	N	VAL	G	904	36.632	90.573	79.722	1.00 35.44	G
ATOM	14938	CA	VAL	G	904	37.081	91.740	78.965	1.00 35.44	G
ATOM	14939	CB	VAL	G	904	38.610	91.748	78.870	1.00 99.60	G
ATOM	14940	CG1	VAL	G	904	39.085	92.918	78.023	1.00 99.60	G
ATOM	14941	CG2	VAL	G	904	39.197	91.808	80.259	1.00 99.60	G
ATOM	14942	C	VAL	G	904	36.495	91.513	77.563	1.00 35.44	G
ATOM	14943	O	VAL	G	904	37.179	91.723	76.542	1.00 35.44	G
ATOM	14944	N	PRO	G	905	35.213	91.068	77.508	1.00100.07	G
ATOM	14945	CD	PRO	G	905	34.267	91.101	78.645	1.00 35.40	G
ATOM	14946	CA	PRO	G	905	34.472	90.763	76.283	1.00100.07	G
ATOM	14947	CB	PRO	G	905	33.028	90.680	76.781	1.00 35.40	G
ATOM	14948	CG	PRO	G	905	33.183	90.179	78.179	1.00 35.40	G
ATOM	14949	C	PRO	G	905	34.661	91.686	75.072	1.00100.07	G
ATOM	14950	O	PRO	G	905	33.722	92.331	74.600	1.00100.07	G
ATOM	14951	N	GLN	G	906	35.897	91.709	74.578	1.00 48.66	G
ATOM	14952	CA	GLN	G	906	36.326	92.483	73.424	1.00 48.66	G
ATOM	14953	CB	GLN	G	906	36.430	93.970	73.781	1.00100.07	G
ATOM	14954	CG	GLN	G	906	35.082	94.657	74.078	1.00100.07	G
ATOM	14955	CD	GLN	G	906	34.858	94.969	75.562	1.00100.07	G
ATOM	14956	OE1	GLN	G	906	34.928	94.084	76.418	1.00100.07	G
ATOM	14957	NE2	GLN	G	906	34.580	96.237	75.865	1.00100.07	G
ATOM	14958	C	GLN	G	906	37.705	91.884	73.169	1.00 48.66	G
ATOM	14959	O	GLN	G	906	38.565	91.921	74.053	1.00 48.66	G
ATOM	14960	N	GLU	G	907	37.898	91.309	71.981	1.00 57.50	G
ATOM	14961	CA	GLU	G	907	39.157	90.654	71.615	1.00 57.50	G
ATOM	14962	CB	GLU	G	907	38.996	89.158	71.819	1.00 15.90	G
ATOM	14963	CG	GLU	G	907	40.233	88.440	72.240	1.00 15.90	G
ATOM	14964	CD	GLU	G	907	40.084	87.869	73.630	1.00 15.90	G
ATOM	14965	OE1	GLU	G	907	38.939	87.498	73.974	1.00 15.90	G
ATOM	14966	OE2	GLU	G	907	41.093	87.784	74.381	1.00 15.90	G
ATOM	14967	C	GLU	G	907	39.488	90.917	70.145	1.00 57.50	G
ATOM	14968	O	GLU	G	907	38.589	90.863	69.304	1.00 57.50	G
ATOM	14969	N	LYS	G	908	40.757	91.186	69.824	1.00 31.57	G
ATOM	14970	CA	LYS	G	908	41.142	91.442	68.428	1.00 31.57	G
ATOM	14971	CB	LYS	G	908	40.448	92.710	67.929	1.00100.07	G
ATOM	14972	CG	LYS	G	908	41.120	93.364	66.743	1.00100.07	G
ATOM	14973	CD	LYS	G	908	42.219	94.317	67.196	1.00100.07	G
ATOM	14974	CE	LYS	G	908	42.775	95.148	66.039	1.00100.07	G
ATOM	14975	NZ	LYS	G	908	43.752	96.207	66.481	1.00100.07	G
ATOM	14976	C	LYS	G	908	42.651	91.537	68.153	1.00 31.57	G
ATOM	14977	O	LYS	G	908	43.131	91.330	67.026	1.00 31.57	G
ATOM	14978	N	ASN	G	909	43.409	91.867	69.179	1.00 45.38	G
ATOM	14979	CA	ASN	G	909	44.844	91.978	69.011	1.00 45.38	G
ATOM	14980	CB	ASN	G	909	45.292	93.348	69.506	1.00 50.76	G
ATOM	14981	CG	ASN	G	909	46.711	93.669	69.132	1.00 50.76	G
ATOM	14982	OD1	ASN	G	909	47.637	92.953	69.505	1.00 50.76	G
ATOM	14983	ND2	ASN	G	909	46.896	94.759	68.394	1.00 50.76	G
ATOM	14984	C	ASN	G	909	45.408	90.871	69.879	1.00 45.38	G
ATOM	14985	O	ASN	G	909	46.264	90.103	69.450	1.00 45.38	G
ATOM	14986	N	SER	G	910	44.883	90.809	71.101	1.00 35.05	G
ATOM	14987	CA	SER	G	910	45.249	89.815	72.090	1.00 35.05	G
ATOM	14988	CB	SER	G	910	44.181	89.739	73.167	1.00 16.04	G
ATOM	14989	OG	SER	G	910	42.943	89.345	72.603	1.00 16.04	G
ATOM	14990	C	SER	G	910	45.378	88.435	71.467	1.00 35.05	G
ATOM	14991	O	SER	G	910	46.270	87.671	71.840	1.00 35.05	G
ATOM	14992	N	LEU	G	911	44.471	88.094	70.548	1.00 32.43	G
ATOM	14993	CA	LEU	G	911	44.541	86.787	69.899	1.00 32.43	G
ATOM	14994	CB	LEU	G	911	43.677	86.741	68.636	1.00 41.34	G
ATOM	14995	CG	LEU	G	911	42.151	86.821	68.771	1.00 41.34	G
ATOM	14996	CD1	LEU	G	911	41.600	85.619	69.528	1.00 41.34	G
ATOM	14997	CD2	LEU	G	911	41.794	88.114	69.473	1.00 41.34	G
ATOM	14998	C	LEU	G	911	46.001	86.671	69.535	1.00 32.43	G



ATOM	14999	O	LEU	G	911	46.691	85.741	69.960	1.00	32.43	G
ATOM	15000	N	LYS	G	912	46.465	87.663	68.782	1.00	26.24	G
ATOM	15001	CA	LYS	G	912	47.854	87.734	68.371	1.00	26.24	G
ATOM	15002	CB	LYS	G	912	48.134	89.075	67.710	1.00	42.77	G
ATOM	15003	CG	LYS	G	912	49.594	89.346	67.439	1.00	42.77	G
ATOM	15004	CD	LYS	G	912	49.675	90.480	66.438	1.00	42.77	G
ATOM	15005	CE	LYS	G	912	51.095	90.931	66.124	1.00	42.77	G
ATOM	15006	NZ	LYS	G	912	51.108	91.949	65.018	1.00	42.77	G
ATOM	15007	C	LYS	G	912	48.753	87.574	69.589	1.00	26.24	G
ATOM	15008	O	LYS	G	912	49.753	86.851	69.542	1.00	26.24	G
ATOM	15009	N	ASP	G	913	48.399	88.245	70.683	1.00	37.60	G
ATOM	15010	CA	ASP	G	913	49.207	88.148	71.888	1.00	37.60	G
ATOM	15011	CB	ASP	G	913	48.731	89.125	72.966	1.00100.07	G	G
ATOM	15012	CG	ASP	G	913	49.732	89.257	74.109	1.00100.07	G	G
ATOM	15013	OD1	ASP	G	913	50.918	89.530	73.819	1.00100.07	G	G
ATOM	15014	OD2	ASP	G	913	49.343	89.091	75.289	1.00100.07	G	G
ATOM	15015	C	ASP	G	913	49.153	86.725	72.410	1.00	37.60	G
ATOM	15016	O	ASP	G	913	50.153	86.018	72.344	1.00	37.60	G
ATOM	15017	N	LEU	G	914	47.991	86.309	72.912	1.00	68.78	G
ATOM	15018	CA	LEU	G	914	47.812	84.958	73.440	1.00	68.78	G
ATOM	15019	CB	LEU	G	914	46.397	84.424	73.144	1.00	21.88	G
ATOM	15020	CG	LEU	G	914	45.847	83.327	74.081	1.00	21.88	G
ATOM	15021	CD1	LEU	G	914	44.512	82.819	73.558	1.00	21.88	G
ATOM	15022	CD2	LEU	G	914	46.828	82.182	74.220	1.00	21.88	G
ATOM	15023	C	LEU	G	914	48.820	84.053	72.758	1.00	68.78	G
ATOM	15024	O	LEU	G	914	49.779	83.595	73.383	1.00	68.78	G
ATOM	15025	N	VAL	G	915	48.602	83.838	71.460	1.00	25.52	G
ATOM	15026	CA	VAL	G	915	49.455	82.986	70.652	1.00	25.52	G
ATOM	15027	CB	VAL	G	915	49.341	83.348	69.215	1.00	5.07	G
ATOM	15028	CG1	VAL	G	915	50.200	82.442	68.399	1.00	5.07	G
ATOM	15029	CG2	VAL	G	915	47.910	83.243	68.808	1.00	5.07	G
ATOM	15030	C	VAL	G	915	50.916	83.009	71.033	1.00	25.52	G
ATOM	15031	O	VAL	G	915	51.476	81.961	71.340	1.00	25.52	G
ATOM	15032	N	TYR	G	916	51.542	84.184	70.996	1.00	41.66	G
ATOM	15033	CA	TYR	G	916	52.948	84.275	71.378	1.00	41.66	G
ATOM	15034	CB	TYR	G	916	53.486	85.711	71.262	1.00	18.15	G
ATOM	15035	CG	TYR	G	916	54.914	85.896	71.781	1.00	18.15	G
ATOM	15036	CD1	TYR	G	916	55.974	86.157	70.913	1.00	18.15	G
ATOM	15037	CE1	TYR	G	916	57.285	86.297	71.395	1.00	18.15	G
ATOM	15038	CD2	TYR	G	916	55.200	85.786	73.140	1.00	18.15	G
ATOM	15039	CE2	TYR	G	916	56.496	85.919	73.630	1.00	18.15	G
ATOM	15040	CZ	TYR	G	916	57.538	86.171	72.763	1.00	18.15	G
ATOM	15041	OH	TYR	G	916	58.823	86.266	73.280	1.00	18.15	G
ATOM	15042	C	TYR	G	916	53.050	83.806	72.821	1.00	41.66	G
ATOM	15043	O	TYR	G	916	53.426	82.667	73.069	1.00	41.66	G
ATOM	15044	N	GLN	G	917	52.703	84.676	73.771	1.00	94.98	G
ATOM	15045	CA	GLN	G	917	52.781	84.323	75.190	1.00	94.98	G
ATOM	15046	CB	GLN	G	917	52.465	85.554	76.079	1.00	67.42	G
ATOM	15047	CG	GLN	G	917	53.678	86.529	76.295	1.00	67.42	G
ATOM	15048	CD	GLN	G	917	53.314	88.045	76.339	1.00	67.42	G
ATOM	15049	OE1	GLN	G	917	52.847	88.618	75.348	1.00	67.42	G
ATOM	15050	NE2	GLN	G	917	53.550	88.686	77.488	1.00	67.42	G
ATOM	15051	C	GLN	G	917	51.868	83.138	75.512	1.00	94.98	G
ATOM	15052	O	GLN	G	917	51.292	83.059	76.591	1.00	94.98	G
ATOM	15053	N	ALA	G	918	51.762	82.230	74.539	1.00	30.48	G
ATOM	15054	CA	ALA	G	918	50.991	80.982	74.599	1.00	30.48	G
ATOM	15055	CB	ALA	G	918	49.742	81.064	73.747	1.00	23.16	G
ATOM	15056	C	ALA	G	918	51.932	79.961	73.990	1.00	30.48	G
ATOM	15057	O	ALA	G	918	52.021	78.815	74.432	1.00	30.48	G
ATOM	15058	N	PHE	G	919	52.609	80.417	72.941	1.00	37.87	G
ATOM	15059	CA	PHE	G	919	53.592	79.652	72.190	1.00	37.87	G
ATOM	15060	CB	PHE	G	919	54.153	80.561	71.071	1.00	25.21	G
ATOM	15061	CG	PHE	G	919	55.256	79.952	70.220	1.00	25.21	G
ATOM	15062	CD1	PHE	G	919	55.259	80.153	68.837	1.00	25.21	G
ATOM	15063	CD2	PHE	G	919	56.339	79.281	70.789	1.00	25.21	G
ATOM	15064	CE1	PHE	G	919	56.315	79.708	68.042	1.00	25.21	G
ATOM	15065	CE2	PHE	G	919	57.398	78.835	69.996	1.00	25.21	G
ATOM	15066	CZ	PHE	G	919	57.378	79.053	68.621	1.00	25.21	G
ATOM	15067	C	PHE	G	919	54.651	79.222	73.205	1.00	37.87	G
ATOM	15068	O	PHE	G	919	54.606	78.097	73.685	1.00	37.87	G
ATOM	15069	N	LEU	G	920	55.574	80.101	73.573	1.00	31.15	G
ATOM	15070	CA	LEU	G	920	56.598	79.696	74.525	1.00	31.15	G
ATOM	15071	CB	LEU	G	920	57.518	80.859	74.885	1.00	50.94	G
ATOM	15072	CG	LEU	G	920	56.924	82.240	75.111	1.00	50.94	G
ATOM	15073	CD1	LEU	G	920	57.982	83.180	75.653	1.00	50.94	G
ATOM	15074	CD2	LEU	G	920	56.404	82.757	73.793	1.00	50.94	G
ATOM	15075	C	LEU	G	920	56.000	79.114	75.794	1.00	31.15	G
ATOM	15076	O	LEU	G	920	56.715	78.559	76.637	1.00	31.15	G
ATOM	15077	N	ARG	G	921	54.685	79.234	75.929	1.00	42.43	G
ATOM	15078	CA	ARG	G	921	54.004	78.695	77.096	1.00	42.43	G
ATOM	15079	CB	ARG	G	921	52.665	79.392	77.284	1.00100.07	G	G
ATOM	15080	CG	ARG	G	921	52.771	80.890	77.390	1.00100.07	G	G
ATOM	15081	CD	ARG	G	921	52.866	81.362	78.826	1.00100.07	G	G
ATOM	15082	NE	ARG	G	921	52.538	82.782	78.913	1.00100.07	G	G



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ATOM	15083	CZ	ARG	G	921	52.284	83.419	80.048	1.00100.07	G
ATOM	15084	NH1	ARG	G	921	52.324	82.764	81.201	1.00100.07	G
ATOM	15085	NH2	ARG	G	921	51.970	84.705	80.027	1.00100.07	G
ATOM	15086	C	ARG	G	921	53.766	77.206	76.911	1.00 42.43	G
ATOM	15087	O	ARG	G	921	53.982	76.419	77.827	1.00 42.43	G
ATOM	15088	N	LEU	G	922	53.327	76.838	75.710	1.00 44.04	G
ATOM	15089	CA	LEU	G	922	53.030	75.451	75.361	1.00 44.04	G
ATOM	15090	CB	LEU	G	922	51.512	75.287	75.270	1.00 7.34	G
ATOM	15091	CG	LEU	G	922	50.720	76.050	76.343	1.00 7.34	G
ATOM	15092	CD1	LEU	G	922	49.227	76.146	76.025	1.00 7.34	G
ATOM	15093	CD2	LEU	G	922	50.944	75.348	77.636	1.00 7.34	G
ATOM	15094	C	LEU	G	922	53.686	75.135	74.010	1.00 44.04	G
ATOM	15095	O	LEU	G	922	53.556	75.902	73.063	1.00 44.04	G
ATOM	15096	N	GLY	G	923	54.387	74.010	73.922	1.00 72.53	G
ATOM	15097	CA	GLY	G	923	55.075	73.648	72.687	1.00 72.53	G
ATOM	15098	C	GLY	G	923	54.411	73.979	71.358	1.00 72.53	G
ATOM	15099	O	GLY	G	923	53.186	74.029	71.275	1.00 72.53	G
ATOM	15100	N	MET	G	924	55.218	74.200	70.317	1.00 43.18	G
ATOM	15101	CA	MET	G	924	54.697	74.513	68.986	1.00 43.18	G
ATOM	15102	CB	MET	G	924	55.687	74.157	67.886	1.00 30.36	G
ATOM	15103	CG	MET	G	924	56.921	74.996	67.850	1.00 30.36	G
ATOM	15104	SD	MET	G	924	57.814	74.652	66.340	1.00 30.36	G
ATOM	15105	CE	MET	G	924	58.292	72.974	66.643	1.00 30.36	G
ATOM	15106	C	MET	G	924	53.456	73.710	68.722	1.00 43.18	G
ATOM	15107	O	MET	G	924	52.382	74.271	68.488	1.00 43.18	G
ATOM	15108	N	GLU	G	925	53.618	72.387	68.755	1.00 32.52	G
ATOM	15109	CA	GLU	G	925	52.511	71.489	68.506	1.00 32.52	G
ATOM	15110	CB	GLU	G	925	52.806	70.096	69.053	1.00100.07	G
ATOM	15111	CG	GLU	G	925	53.470	70.084	70.392	1.00100.07	G
ATOM	15112	CD	GLU	G	925	54.402	68.905	70.528	1.00100.07	G
ATOM	15113	OE1	GLU	G	925	55.204	68.695	69.595	1.00100.07	G
ATOM	15114	OE2	GLU	G	925	54.346	68.197	71.556	1.00100.07	G
ATOM	15115	C	GLU	G	925	51.262	72.061	69.131	1.00 32.52	G
ATOM	15116	O	GLU	G	925	50.353	72.475	68.417	1.00 32.52	G
ATOM	15117	N	LYS	G	926	51.215	72.129	70.453	1.00 40.61	G
ATOM	15118	CA	LYS	G	926	50.027	72.672	71.076	1.00 40.61	G
ATOM	15119	CB	LYS	G	926	50.277	72.984	72.542	1.00 81.62	G
ATOM	15120	CG	LYS	G	926	50.375	71.727	73.363	1.00 81.62	G
ATOM	15121	CD	LYS	G	926	50.031	71.990	74.803	1.00 81.62	G
ATOM	15122	CE	LYS	G	926	49.978	70.696	75.601	1.00 81.62	G
ATOM	15123	NZ	LYS	G	926	49.600	70.913	77.033	1.00 81.62	G
ATOM	15124	C	LYS	G	926	49.543	73.898	70.320	1.00 40.61	G
ATOM	15125	O	LYS	G	926	48.554	73.813	69.606	1.00 40.61	G
ATOM	15126	N	THR	G	927	50.244	75.017	70.428	1.00 44.70	G
ATOM	15127	CA	THR	G	927	49.823	76.226	69.733	1.00 44.70	G
ATOM	15128	CB	THR	G	927	50.993	77.101	69.374	1.00 25.61	G
ATOM	15129	OG1	THR	G	927	51.706	77.460	70.559	1.00 25.61	G
ATOM	15130	CG2	THR	G	927	50.491	78.360	68.687	1.00 25.61	G
ATOM	15131	C	THR	G	927	49.076	75.949	68.435	1.00 44.70	G
ATOM	15132	O	THR	G	927	47.968	76.455	68.237	1.00 44.70	G
ATOM	15133	N	ALA	G	928	49.688	75.160	67.548	1.00 38.44	G
ATOM	15134	CA	ALA	G	928	49.064	74.817	66.265	1.00 38.44	G
ATOM	15135	CB	ALA	G	928	49.713	73.564	65.653	1.00 10.51	G
ATOM	15136	C	ALA	G	928	47.605	74.551	66.551	1.00 38.44	G
ATOM	15137	O	ALA	G	928	46.722	75.151	65.946	1.00 38.44	G
ATOM	15138	N	ARG	G	929	47.358	73.650	67.491	1.00 18.89	G
ATOM	15139	CA	ARG	G	929	45.999	73.341	67.846	1.00 18.89	G
ATOM	15140	CB	ARG	G	929	45.953	72.464	69.094	1.00 93.16	G
ATOM	15141	CG	ARG	G	929	46.502	71.090	68.814	1.00 93.16	G
ATOM	15142	CD	ARG	G	929	46.388	70.151	69.983	1.00 93.16	G
ATOM	15143	NE	ARG	G	929	46.770	68.804	69.571	1.00 93.16	G
ATOM	15144	CZ	ARG	G	929	46.714	67.734	70.355	1.00 93.16	G
ATOM	15145	NH1	ARG	G	929	46.293	67.855	71.608	1.00 93.16	G
ATOM	15146	NH2	ARG	G	929	47.059	66.541	69.880	1.00 93.16	G
ATOM	15147	C	ARG	G	929	45.277	74.659	68.051	1.00 18.89	G
ATOM	15148	O	ARG	G	929	44.634	75.137	67.134	1.00 18.89	G
ATOM	15149	N	LEU	G	930	45.393	75.259	69.230	1.00 27.41	G
ATOM	15150	CA	LEU	G	930	44.728	76.529	69.493	1.00 27.41	G
ATOM	15151	CB	LEU	G	930	45.461	77.304	70.597	1.00 41.94	G
ATOM	15152	CG	LEU	G	930	44.855	78.623	71.112	1.00 41.94	G
ATOM	15153	CD1	LEU	G	930	45.141	79.778	70.179	1.00 41.94	G
ATOM	15154	CD2	LEU	G	930	43.364	78.440	71.280	1.00 41.94	G
ATOM	15155	C	LEU	G	930	44.676	77.370	68.220	1.00 27.41	G
ATOM	15156	O	LEU	G	930	43.660	78.003	67.937	1.00 27.41	G
ATOM	15157	N	LEU	G	931	45.764	77.369	67.453	1.00 19.20	G
ATOM	15158	CA	LEU	G	931	45.830	78.134	66.204	1.00 19.20	G
ATOM	15159	CB	LEU	G	931	47.185	77.897	65.530	1.00 16.34	G
ATOM	15160	CG	LEU	G	931	48.025	79.122	65.193	1.00 16.34	G
ATOM	15161	CD1	LEU	G	931	47.242	80.021	64.251	1.00 16.34	G
ATOM	15162	CD2	LEU	G	931	48.402	79.843	66.472	1.00 16.34	G
ATOM	15163	C	LEU	G	931	44.707	77.660	65.281	1.00 19.20	G
ATOM	15164	O	LEU	G	931	44.128	78.420	64.503	1.00 19.20	G
ATOM	15165	N	ASP	G	932	44.433	76.371	65.383	1.00 53.43	G
ATOM	15166	CA	ASP	G	932	43.397	75.713	64.619	1.00 53.43	G



ATOM	15167	CB	ASP	G	932	43.775	74.250	64.423	1.00	40.48	G
ATOM	15168	CG	ASP	G	932	44.188	73.955	63.011	1.00	40.48	G
ATOM	15169	OD1	ASP	G	932	43.355	74.213	62.112	1.00	40.48	G
ATOM	15170	OD2	ASP	G	932	45.327	73.476	62.793	1.00	40.48	G
ATOM	15171	C	ASP	G	932	42.072	75.819	65.369	1.00	53.43	G
ATOM	15172	O	ASP	G	932	41.074	76.311	64.831	1.00	53.43	G
ATOM	15173	N	ALA	G	933	42.073	75.349	66.614	1.00	22.75	G
ATOM	15174	CA	ALA	G	933	40.893	75.395	67.454	1.00	22.75	G
ATOM	15175	CB	ALA	G	933	41.297	75.350	68.898	1.00	12.60	G
ATOM	15176	C	ALA	G	933	40.165	76.684	67.171	1.00	22.75	G
ATOM	15177	O	ALA	G	933	38.956	76.676	66.996	1.00	22.75	G
ATOM	15178	N	LEU	G	934	40.927	77.780	67.100	1.00	45.10	G
ATOM	15179	CA	LEU	G	934	40.403	79.126	66.848	1.00	45.10	G
ATOM	15180	CB	LEU	G	934	41.485	80.172	67.078	1.00	14.64	G
ATOM	15181	CG	LEU	G	934	41.968	80.342	68.516	1.00	14.64	G
ATOM	15182	CD1	LEU	G	934	43.095	81.362	68.574	1.00	14.64	G
ATOM	15183	CD2	LEU	G	934	40.816	80.784	69.368	1.00	14.64	G
ATOM	15184	C	LEU	G	934	39.798	79.375	65.477	1.00	45.10	G
ATOM	15185	O	LEU	G	934	38.682	79.871	65.375	1.00	45.10	G
ATOM	15186	N	LYS	G	935	40.522	79.059	64.416	1.00	40.13	G
ATOM	15187	CA	LYS	G	935	39.971	79.296	63.092	1.00	40.13	G
ATOM	15188	CB	LYS	G	935	40.876	78.716	62.011	1.00	64.39	G
ATOM	15189	CG	LYS	G	935	40.839	77.215	61.933	1.00	64.39	G
ATOM	15190	CD	LYS	G	935	40.838	76.780	60.499	1.00	64.39	G
ATOM	15191	CE	LYS	G	935	40.732	75.284	60.400	1.00	64.39	G
ATOM	15192	NZ	LYS	G	935	40.455	74.896	58.997	1.00	64.39	G
ATOM	15193	C	LYS	G	935	38.576	78.692	62.951	1.00	40.13	G
ATOM	15194	O	LYS	G	935	37.656	79.356	62.482	1.00	40.13	G
ATOM	15195	N	TYR	G	936	38.409	77.439	63.360	1.00	53.66	G
ATOM	15196	CA	TYR	G	936	37.106	76.798	63.246	1.00	53.66	G
ATOM	15197	CB	TYR	G	936	37.117	75.442	63.948	1.00	52.88	G
ATOM	15198	CG	TYR	G	936	35.804	74.667	63.921	1.00	52.88	G
ATOM	15199	CD1	TYR	G	936	35.735	73.373	64.450	1.00	52.88	G
ATOM	15200	CE1	TYR	G	936	34.535	72.653	64.468	1.00	52.88	G
ATOM	15201	CD2	TYR	G	936	34.634	75.220	63.408	1.00	52.88	G
ATOM	15202	CE2	TYR	G	936	33.432	74.509	63.426	1.00	52.88	G
ATOM	15203	CZ	TYR	G	936	33.391	73.231	63.955	1.00	52.88	G
ATOM	15204	OH	TYR	G	936	32.210	72.528	63.975	1.00	52.88	G
ATOM	15205	C	TYR	G	936	36.028	77.684	63.846	1.00	53.66	G
ATOM	15206	O	TYR	G	936	35.275	78.339	63.114	1.00	53.66	G
ATOM	15207	N	TYR	G	937	35.952	77.704	65.175	1.00	79.97	G
ATOM	15208	CA	TYR	G	937	34.948	78.511	65.855	1.00	79.97	G
ATOM	15209	CB	TYR	G	937	35.297	78.656	67.337	1.00	58.88	G
ATOM	15210	CG	TYR	G	937	35.137	77.356	68.078	1.00	58.88	G
ATOM	15211	CD1	TYR	G	937	35.983	76.282	67.812	1.00	58.88	G
ATOM	15212	CE1	TYR	G	937	35.814	75.042	68.444	1.00	58.88	G
ATOM	15213	CD2	TYR	G	937	34.110	77.171	68.999	1.00	58.88	G
ATOM	15214	CE2	TYR	G	937	33.927	75.936	69.640	1.00	58.88	G
ATOM	15215	CZ	TYR	G	937	34.787	74.875	69.354	1.00	58.88	G
ATOM	15216	OH	TYR	G	937	34.642	73.650	69.968	1.00	58.88	G
ATOM	15217	C	TYR	G	937	34.828	79.871	65.187	1.00	79.97	G
ATOM	15218	O	TYR	G	937	33.725	80.382	64.967	1.00	79.97	G
ATOM	15219	N	GLY	G	938	35.973	80.443	64.839	1.00	60.21	G
ATOM	15220	CA	GLY	G	938	35.968	81.729	64.177	1.00	60.21	G
ATOM	15221	C	GLY	G	938	35.047	81.722	62.974	1.00	60.21	G
ATOM	15222	O	GLY	G	938	34.048	82.439	62.948	1.00	60.21	G
ATOM	15223	N	PHE	G	939	35.355	80.896	61.981	1.00	22.71	G
ATOM	15224	CA	PHE	G	939	34.525	80.871	60.785	1.00	22.71	G
ATOM	15225	CB	PHE	G	939	35.062	79.868	59.746	1.00	18.06	G
ATOM	15226	CG	PHE	G	939	36.390	80.246	59.161	1.00	18.06	G
ATOM	15227	CD1	PHE	G	939	37.567	79.921	59.810	1.00	18.06	G
ATOM	15228	CD2	PHE	G	939	36.458	80.922	57.963	1.00	18.06	G
ATOM	15229	CE1	PHE	G	939	38.784	80.272	59.281	1.00	18.06	G
ATOM	15230	CE2	PHE	G	939	37.664	81.276	57.430	1.00	18.06	G
ATOM	15231	CZ	PHE	G	939	38.832	80.947	58.086	1.00	18.06	G
ATOM	15232	C	PHE	G	939	33.061	80.556	61.075	1.00	22.71	G
ATOM	15233	O	PHE	G	939	32.180	81.354	60.726	1.00	22.71	G
ATOM	15234	N	THR	G	940	32.811	79.403	61.705	1.00	35.31	G
ATOM	15235	CA	THR	G	940	31.452	78.956	62.031	1.00	35.31	G
ATOM	15236	CB	THR	G	940	31.456	77.814	63.039	1.00	78.82	G
ATOM	15237	OG1	THR	G	940	32.338	76.790	62.585	1.00	78.82	G
ATOM	15238	CG2	THR	G	940	30.050	77.241	63.201	1.00	78.82	G
ATOM	15239	C	THR	G	940	30.625	80.062	62.652	1.00	35.31	G
ATOM	15240	O	THR	G	940	29.586	80.471	62.107	1.00	35.31	G
ATOM	15241	N	LEU	G	941	31.090	80.505	63.820	1.00	73.58	G
ATOM	15242	CA	LEU	G	941	30.459	81.576	64.574	1.00	73.58	G
ATOM	15243	CB	LEU	G	941	31.392	82.061	65.672	1.00	25.16	G
ATOM	15244	CG	LEU	G	941	31.250	81.452	67.062	1.00	25.16	G
ATOM	15245	CD1	LEU	G	941	29.776	81.350	67.372	1.00	25.16	G
ATOM	15246	CD2	LEU	G	941	31.904	80.101	67.142	1.00	25.16	G
ATOM	15247	C	LEU	G	941	30.190	82.725	63.631	1.00	73.58	G
ATOM	15248	O	LEU	G	941	29.045	83.129	63.422	1.00	73.58	G
ATOM	15249	N	SER	G	942	31.274	83.254	63.082	1.00	23.90	G
ATOM	15250	CA	SER	G	942	31.213	84.341	62.137	1.00	23.90	G



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ATOM	15251	CB	SER	G	942	32.423	84.280	61.226	1.00	9.16	G
ATOM	15252	OG	SER	G	942	32.145	85.004	60.053	1.00	9.16	G
ATOM	15253	C	SER	G	942	29.957	84.256	61.286	1.00	23.90	G
ATOM	15254	O	SER	G	942	29.270	85.257	61.076	1.00	23.90	G
ATOM	15255	N	THR	G	943	29.669	83.049	60.799	1.00	44.02	G
ATOM	15256	CA	THR	G	943	28.506	82.791	59.942	1.00	44.02	G
ATOM	15257	CB	THR	G	943	28.489	81.341	59.420	1.00	26.04	G
ATOM	15258	OG1	THR	G	943	29.828	80.886	59.195	1.00	26.04	G
ATOM	15259	CG2	THR	G	943	27.722	81.270	58.120	1.00	26.04	G
ATOM	15260	C	THR	G	943	27.185	83.001	60.665	1.00	44.02	G
ATOM	15261	O	THR	G	943	26.441	83.932	60.358	1.00	44.02	G
ATOM	15262	N	THR	G	944	26.913	82.103	61.612	1.00	36.28	G
ATOM	15263	CA	THR	G	944	25.700	82.094	62.430	1.00	36.28	G
ATOM	15264	CB	THR	G	944	25.942	81.356	63.735	1.00	19.29	G
ATOM	15265	OG1	THR	G	944	27.162	80.621	63.625	1.00	19.29	G
ATOM	15266	CG2	THR	G	944	24.817	80.386	64.017	1.00	19.29	G
ATOM	15267	C	THR	G	944	25.205	83.475	62.788	1.00	36.28	G
ATOM	15268	O	THR	G	944	24.009	83.763	62.693	1.00	36.28	G
ATOM	15269	N	SER	G	945	26.124	84.328	63.216	1.00	25.97	G
ATOM	15270	CA	SER	G	945	25.752	85.682	63.592	1.00	25.97	G
ATOM	15271	CB	SER	G	945	26.934	86.379	64.278	1.00	73.26	G
ATOM	15272	OG	SER	G	945	27.170	85.825	65.565	1.00	73.26	G
ATOM	15273	C	SER	G	945	25.240	86.510	62.409	1.00	25.97	G
ATOM	15274	O	SER	G	945	24.060	86.843	62.345	1.00	25.97	G
ATOM	15275	N	GLY	G	946	26.112	86.828	61.462	1.00	46.19	G
ATOM	15276	CA	GLY	G	946	25.679	87.625	60.330	1.00	46.19	G
ATOM	15277	C	GLY	G	946	26.517	88.879	60.201	1.00	46.19	G
ATOM	15278	O	GLY	G	946	27.158	89.339	61.145	1.00	46.19	G
ATOM	15279	N	ILE	G	947	26.519	89.431	59.006	1.00	21.23	G
ATOM	15280	CA	ILE	G	947	27.273	90.632	58.712	1.00	21.23	G
ATOM	15281	CB	ILE	G	947	28.714	90.268	58.350	1.00	100.07	G
ATOM	15282	CG2	ILE	G	947	29.392	91.440	57.678	1.00	100.07	G
ATOM	15283	CG1	ILE	G	947	29.451	89.773	59.604	1.00	100.07	G
ATOM	15284	CD	ILE	G	947	29.439	90.735	60.789	1.00	100.07	G
ATOM	15285	C	ILE	G	947	26.529	91.158	57.501	1.00	21.23	G
ATOM	15286	O	ILE	G	947	25.935	90.364	56.797	1.00	21.23	G
ATOM	15287	N	ILE	G	948	26.520	92.456	57.228	1.00	20.15	G
ATOM	15288	CA	ILE	G	948	25.756	92.875	56.059	1.00	20.15	G
ATOM	15289	CB	ILE	G	948	24.259	92.923	56.375	1.00	82.40	G
ATOM	15290	CG2	ILE	G	948	23.604	91.690	55.848	1.00	82.40	G
ATOM	15291	CG1	ILE	G	948	24.045	93.126	57.881	1.00	82.40	G
ATOM	15292	CD	ILE	G	948	22.604	93.418	58.294	1.00	82.40	G
ATOM	15293	C	ILE	G	948	26.082	94.186	55.377	1.00	20.15	G
ATOM	15294	O	ILE	G	948	25.354	94.588	54.465	1.00	20.15	G
ATOM	15295	N	THR	G	949	27.154	94.851	55.790	1.00	17.57	G
ATOM	15296	CA	THR	G	949	27.483	96.137	55.199	1.00	17.57	G
ATOM	15297	CB	THR	G	949	28.791	96.048	54.445	1.00	22.46	G
ATOM	15298	OG1	THR	G	949	29.784	95.482	55.309	1.00	22.46	G
ATOM	15299	CG2	THR	G	949	29.243	97.433	54.029	1.00	22.46	G
ATOM	15300	C	THR	G	949	26.335	96.588	54.283	1.00	17.57	G
ATOM	15301	O	THR	G	949	26.424	96.542	53.048	1.00	17.57	G
ATOM	15302	N	ILE	G	950	25.238	96.984	54.930	1.00	37.62	G
ATOM	15303	CA	ILE	G	950	24.018	97.425	54.257	1.00	37.62	G
ATOM	15304	CB	ILE	G	950	22.784	97.348	55.217	1.00	100.07	G
ATOM	15305	CG2	ILE	G	950	21.613	98.122	54.644	1.00	100.07	G
ATOM	15306	CG1	ILE	G	950	22.406	95.891	55.496	1.00	100.07	G
ATOM	15307	CD	ILE	G	950	21.014	95.699	56.090	1.00	100.07	G
ATOM	15308	C	ILE	G	950	24.083	98.854	53.726	1.00	37.62	G
ATOM	15309	O	ILE	G	950	24.836	99.681	54.240	1.00	37.62	G
ATOM	15310	N	GLY	G	951	23.271	99.142	52.709	1.00	29.39	G
ATOM	15311	CA	GLY	G	951	23.231	100.478	52.154	1.00	29.39	G
ATOM	15312	C	GLY	G	951	23.311	101.364	53.356	1.00	29.39	G
ATOM	15313	O	GLY	G	951	23.989	102.388	53.329	1.00	29.39	G
ATOM	15314	N	ILE	G	952	22.644	100.914	54.423	1.00	55.50	G
ATOM	15315	CA	ILE	G	952	22.588	101.618	55.701	1.00	55.50	G
ATOM	15316	CB	ILE	G	952	21.127	101.746	56.244	1.00	70.06	G
ATOM	15317	CG2	ILE	G	952	21.077	102.844	57.304	1.00	70.06	G
ATOM	15318	CG1	ILE	G	952	20.147	102.061	55.101	1.00	70.06	G
ATOM	15319	CD	ILE	G	952	18.874	102.811	55.523	1.00	70.06	G
ATOM	15320	C	ILE	G	952	23.429	100.957	56.793	1.00	55.50	G
ATOM	15321	O	ILE	G	952	24.374	101.575	57.269	1.00	55.50	G
ATOM	15322	N	ASP	G	953	23.068	99.726	57.191	1.00	66.00	G
ATOM	15323	CA	ASP	G	953	23.776	98.959	58.240	1.00	66.00	G
ATOM	15324	CB	ASP	G	953	23.793	97.467	57.915	1.00	60.15	G
ATOM	15325	CG	ASP	G	953	22.908	96.648	58.834	1.00	60.15	G
ATOM	15326	OD1	ASP	G	953	23.361	96.269	59.940	1.00	60.15	G
ATOM	15327	OD2	ASP	G	953	21.750	96.384	58.445	1.00	60.15	G
ATOM	15328	C	ASP	G	953	25.209	99.404	58.378	1.00	66.00	G
ATOM	15329	O	ASP	G	953	26.112	98.706	57.932	1.00	66.00	G
ATOM	15330	N	ALA	G	954	25.398	100.549	59.026	1.00	33.02	G
ATOM	15331	CA	ALA	G	954	26.700	101.176	59.215	1.00	33.02	G
ATOM	15332	CB	ALA	G	954	27.814	100.142	59.248	1.00	100.07	G
ATOM	15333	C	ALA	G	954	26.866	102.120	58.026	1.00	33.02	G
ATOM	15334	O	ALA	G	954	26.660	101.750	56.874	1.00	33.02	G



ATOM	15335	N	ALA	G	955	27.229	103.351	58.343	1.00	66.89	G
ATOM	15336	CA	ALA	G	955	27.407	104.457	57.404	1.00	66.89	G
ATOM	15337	CB	ALA	G	955	26.561	104.266	56.149	1.00	48.39	G
ATOM	15338	C	ALA	G	955	26.764	105.468	58.318	1.00	66.89	G
ATOM	15339	O	ALA	G	955	27.113	106.647	58.349	1.00	66.89	G
ATOM	15340	N	VAL	G	956	25.828	104.919	59.088	1.00	44.92	G
ATOM	15341	CA	VAL	G	956	25.065	105.620	60.087	1.00	44.92	G
ATOM	15342	CB	VAL	G	956	25.136	104.886	61.409	1.00	88.16	G
ATOM	15343	CG1	VAL	G	956	24.219	105.546	62.398	1.00	88.16	G
ATOM	15344	CG2	VAL	G	956	24.790	103.431	61.208	1.00	88.16	G
ATOM	15345	C	VAL	G	956	25.650	106.989	60.283	1.00	44.92	G
ATOM	15346	O	VAL	G	956	26.437	107.217	61.209	1.00	44.92	G
ATOM	15347	N	ILE	G	957	25.274	107.899	59.398	1.00	100.07	G
ATOM	15348	CA	ILE	G	957	25.772	109.255	59.473	1.00	100.07	G
ATOM	15349	CB	ILE	G	957	25.656	109.961	58.116	1.00	72.26	G
ATOM	15350	CG2	ILE	G	957	25.611	111.463	58.304	1.00	72.26	G
ATOM	15351	CG1	ILE	G	957	26.847	109.573	57.246	1.00	72.26	G
ATOM	15352	CD	ILE	G	957	28.179	109.852	57.901	1.00	72.26	G
ATOM	15353	C	ILE	G	957	25.058	110.073	60.534	1.00	100.07	G
ATOM	15354	O	ILE	G	957	23.835	109.997	60.692	1.00	100.07	G
ATOM	15355	N	PRO	G	958	25.827	110.865	61.287	1.00	30.76	G
ATOM	15356	CD	PRO	G	958	27.301	110.863	61.294	1.00	41.33	G
ATOM	15357	CA	PRO	G	958	25.291	111.719	62.352	1.00	30.76	G
ATOM	15358	CB	PRO	G	958	26.502	111.949	63.237	1.00	41.33	G
ATOM	15359	CG	PRO	G	958	27.620	112.022	62.204	1.00	41.33	G
ATOM	15360	C	PRO	G	958	24.739	113.028	61.802	1.00	30.76	G
ATOM	15361	O	PRO	G	958	25.352	113.644	60.925	1.00	30.76	G
ATOM	15362	N	GLU	G	959	23.583	113.452	62.310	1.00	66.33	G
ATOM	15363	CA	GLU	G	959	22.996	114.710	61.865	1.00	66.33	G
ATOM	15364	CB	GLU	G	959	21.893	115.172	62.824	1.00	83.69	G
ATOM	15365	CG	GLU	G	959	20.767	114.172	63.094	1.00	83.69	G
ATOM	15366	CD	GLU	G	959	19.574	114.326	62.159	1.00	83.69	G
ATOM	15367	OE1	GLU	G	959	19.132	115.470	61.907	1.00	83.69	G
ATOM	15368	OE2	GLU	G	959	19.062	113.290	61.691	1.00	83.69	G
ATOM	15369	C	GLU	G	959	24.165	115.682	61.950	1.00	66.33	G
ATOM	15370	O	GLU	G	959	24.290	116.612	61.147	1.00	66.33	G
ATOM	15371	N	GLU	G	960	25.030	115.418	62.932	1.00	44.62	G
ATOM	15372	CA	GLU	G	960	26.213	116.225	63.206	1.00	44.62	G
ATOM	15373	CB	GLU	G	960	27.166	115.471	64.120	1.00	41.47	G
ATOM	15374	CG	GLU	G	960	26.551	115.152	65.456	1.00	41.47	G
ATOM	15375	CD	GLU	G	960	27.587	114.720	66.454	1.00	41.47	G
ATOM	15376	OE1	GLU	G	960	28.651	115.366	66.468	1.00	41.47	G
ATOM	15377	OE2	GLU	G	960	27.348	113.756	67.224	1.00	41.47	G
ATOM	15378	C	GLU	G	960	26.964	116.706	61.989	1.00	44.62	G
ATOM	15379	O	GLU	G	960	27.533	117.794	62.014	1.00	44.62	G
ATOM	15380	N	LYS	G	961	26.981	115.913	60.922	1.00	61.28	G
ATOM	15381	CA	LYS	G	961	27.679	116.365	59.730	1.00	61.28	G
ATOM	15382	CB	LYS	G	961	27.333	115.517	58.505	1.00	100.07	G
ATOM	15383	CG	LYS	G	961	28.207	115.854	57.298	1.00	100.07	G
ATOM	15384	CD	LYS	G	961	27.824	115.079	56.045	1.00	100.07	G
ATOM	15385	CE	LYS	G	961	28.768	115.401	54.889	1.00	100.07	G
ATOM	15386	NZ	LYS	G	961	28.351	114.749	53.617	1.00	100.07	G
ATOM	15387	C	LYS	G	961	27.187	117.787	59.524	1.00	61.28	G
ATOM	15388	O	LYS	G	961	27.934	118.661	59.104	1.00	61.28	G
ATOM	15389	N	GLN	G	962	25.923	118.015	59.857	1.00	40.61	G
ATOM	15390	CA	GLN	G	962	25.352	119.334	59.726	1.00	40.61	G
ATOM	15391	CB	GLN	G	962	23.860	119.289	60.019	1.00	82.10	G
ATOM	15392	CG	GLN	G	962	23.047	118.931	58.791	1.00	82.10	G
ATOM	15393	CD	GLN	G	962	21.593	118.692	59.117	1.00	82.10	G
ATOM	15394	OE1	GLN	G	962	21.023	119.360	59.981	1.00	82.10	G
ATOM	15395	NE2	GLN	G	962	20.976	117.743	58.422	1.00	82.10	G
ATOM	15396	C	GLN	G	962	26.066	120.324	60.636	1.00	40.61	G
ATOM	15397	O	GLN	G	962	26.977	121.001	60.181	1.00	40.61	G
ATOM	15398	N	ARG	G	963	25.672	120.414	61.907	1.00	99.81	G
ATOM	15399	CA	ARG	G	963	26.314	121.351	62.845	1.00	99.81	G
ATOM	15400	CB	ARG	G	963	26.111	120.869	64.311	1.00	54.04	G
ATOM	15401	CG	ARG	G	963	27.109	121.385	65.386	1.00	54.04	G
ATOM	15402	CD	ARG	G	963	27.015	120.551	66.704	1.00	54.04	G
ATOM	15403	NE	ARG	G	963	28.264	120.514	67.491	1.00	54.04	G
ATOM	15404	CZ	ARG	G	963	28.413	119.893	68.669	1.00	54.04	G
ATOM	15405	NH1	ARG	G	963	27.388	119.254	69.209	1.00	54.04	G
ATOM	15406	NH2	ARG	G	963	29.586	119.902	69.307	1.00	54.04	G
ATOM	15407	C	ARG	G	963	27.806	121.557	62.514	1.00	99.81	G
ATOM	15408	O	ARG	G	963	28.276	122.695	62.493	1.00	99.81	G
ATOM	15409	N	TYR	G	964	28.536	120.474	62.223	1.00	59.83	G
ATOM	15410	CA	TYR	G	964	29.965	120.576	61.895	1.00	59.83	G
ATOM	15411	CB	TYR	G	964	30.638	119.204	61.920	1.00	96.05	G
ATOM	15412	CG	TYR	G	964	30.789	118.613	63.306	1.00	96.05	G
ATOM	15413	CD1	TYR	G	964	29.684	118.133	64.006	1.00	96.05	G
ATOM	15414	CE1	TYR	G	964	29.822	117.572	65.261	1.00	96.05	G
ATOM	15415	CD2	TYR	G	964	32.042	118.517	63.908	1.00	96.05	G
ATOM	15416	CE2	TYR	G	964	32.190	117.957	65.164	1.00	96.05	G
ATOM	15417	CZ	TYR	G	964	31.077	117.483	65.836	1.00	96.05	G
ATOM	15418	OH	TYR	G	964	31.223	116.901	67.077	1.00	96.05	G



ATOM	15419	C	TYR	G	964	30.135	121.210	60.527	1.00	59.83	G
ATOM	15420	O	TYR	G	964	31.088	121.950	60.277	1.00	59.83	G
ATOM	15421	N	LEU	G	965	29.219	120.877	59.629	1.00	67.15	G
ATOM	15422	CA	LEU	G	965	29.207	121.483	58.314	1.00	67.15	G
ATOM	15423	CB	LEU	G	965	28.290	120.715	57.366	1.00	37.73	G
ATOM	15424	CG	LEU	G	965	28.954	119.741	56.395	1.00	37.73	G
ATOM	15425	CD1	LEU	G	965	29.579	120.523	55.269	1.00	37.73	G
ATOM	15426	CD2	LEU	G	965	30.002	118.901	57.109	1.00	37.73	G
ATOM	15427	C	LEU	G	965	28.565	122.800	58.691	1.00	67.15	G
ATOM	15428	O	LEU	G	965	28.130	122.960	59.833	1.00	67.15	G
ATOM	15429	N	GLU	G	966	28.482	123.738	57.762	1.00	60.94	G
ATOM	15430	CA	GLU	G	966	27.886	125.020	58.090	1.00	60.94	G
ATOM	15431	CB	GLU	G	966	26.510	124.837	58.729	1.00	84.32	G
ATOM	15432	CG	GLU	G	966	25.885	126.154	59.055	1.00	84.32	G
ATOM	15433	CD	GLU	G	966	26.086	127.143	57.928	1.00	84.32	G
ATOM	15434	OE1	GLU	G	966	25.421	126.998	56.884	1.00	84.32	G
ATOM	15435	OE2	GLU	G	966	26.925	128.052	58.076	1.00	84.32	G
ATOM	15436	C	GLU	G	966	28.812	125.758	59.045	1.00	60.94	G
ATOM	15437	O	GLU	G	966	29.256	126.850	58.734	1.00	60.94	G
ATOM	15438	N	GLU	G	967	29.091	125.188	60.217	1.00	53.77	G
ATOM	15439	CA	GLU	G	967	30.026	125.844	61.123	1.00	53.77	G
ATOM	15440	CB	GLU	G	967	30.360	124.982	62.338	1.00	91.99	G
ATOM	15441	CG	GLU	G	967	29.328	125.037	63.442	1.00	91.99	G
ATOM	15442	CD	GLU	G	967	29.883	124.556	64.764	1.00	91.99	G
ATOM	15443	OE1	GLU	G	967	30.588	123.528	64.768	1.00	91.99	G
ATOM	15444	OE2	GLU	G	967	29.613	125.200	65.800	1.00	91.99	G
ATOM	15445	C	GLU	G	967	31.234	125.937	60.226	1.00	53.77	G
ATOM	15446	O	GLU	G	967	31.886	126.975	60.116	1.00	53.77	G
ATOM	15447	N	ALA	G	968	31.518	124.829	59.564	1.00	42.86	G
ATOM	15448	CA	ALA	G	968	32.615	124.819	58.634	1.00	42.86	G
ATOM	15449	CB	ALA	G	968	32.560	123.564	57.780	1.00	100.07	G
ATOM	15450	C	ALA	G	968	32.319	126.061	57.796	1.00	42.86	G
ATOM	15451	O	ALA	G	968	33.150	126.964	57.691	1.00	42.86	G
ATOM	15452	N	ASP	G	969	31.111	126.108	57.238	1.00	60.16	G
ATOM	15453	CA	ASP	G	969	30.682	127.242	56.426	1.00	60.16	G
ATOM	15454	CB	ASP	G	969	29.268	127.017	55.886	1.00	100.07	G
ATOM	15455	CG	ASP	G	969	29.192	125.866	54.908	1.00	100.07	G
ATOM	15456	OD1	ASP	G	969	29.842	125.939	53.841	1.00	100.07	G
ATOM	15457	OD2	ASP	G	969	28.476	124.888	55.206	1.00	100.07	G
ATOM	15458	C	ASP	G	969	30.703	128.524	57.253	1.00	60.16	G
ATOM	15459	O	ASP	G	969	31.718	128.838	57.867	1.00	60.16	G
ATOM	15460	N	ARG	G	970	29.565	129.229	57.281	1.00	66.13	G
ATOM	15461	CA	ARG	G	970	29.389	130.505	57.998	1.00	66.13	G
ATOM	15462	CB	ARG	G	970	28.495	130.340	59.247	1.00	100.07	G
ATOM	15463	CG	ARG	G	970	29.156	129.686	60.461	1.00	100.07	G
ATOM	15464	CD	ARG	G	970	28.290	129.738	61.734	1.00	100.07	G
ATOM	15465	NE	ARG	G	970	29.079	129.408	62.924	1.00	100.07	G
ATOM	15466	CZ	ARG	G	970	28.574	129.218	64.136	1.00	100.07	G
ATOM	15467	NH1	ARG	G	970	27.269	129.319	64.336	1.00	100.07	G
ATOM	15468	NH2	ARG	G	970	29.377	128.928	65.151	1.00	100.07	G
ATOM	15469	C	ARG	G	970	30.716	131.138	58.374	1.00	66.13	G
ATOM	15470	O	ARG	G	970	31.054	132.200	57.855	1.00	66.13	G
ATOM	15471	N	LYS	G	971	31.466	130.488	59.263	1.00	35.90	G
ATOM	15472	CA	LYS	G	971	32.777	130.973	59.666	1.00	35.90	G
ATOM	15473	CB	LYS	G	971	33.341	130.134	60.812	1.00	88.31	G
ATOM	15474	CG	LYS	G	971	32.571	130.325	62.110	1.00	88.31	G
ATOM	15475	CD	LYS	G	971	33.108	129.475	63.253	1.00	88.31	G
ATOM	15476	CE	LYS	G	971	32.252	129.658	64.495	1.00	88.31	G
ATOM	15477	NZ	LYS	G	971	32.805	128.925	65.659	1.00	88.31	G
ATOM	15478	C	LYS	G	971	33.671	130.866	58.438	1.00	35.90	G
ATOM	15479	O	LYS	G	971	34.901	130.803	58.554	1.00	35.90	G
ATOM	15480	N	LEU	G	972	33.015	130.839	57.269	1.00	52.38	G
ATOM	15481	CA	LEU	G	972	33.636	130.763	55.944	1.00	52.38	G
ATOM	15482	CB	LEU	G	972	32.990	129.654	55.100	1.00	78.81	G
ATOM	15483	CG	LEU	G	972	33.806	128.378	54.844	1.00	78.81	G
ATOM	15484	CD1	LEU	G	972	32.920	127.316	54.222	1.00	78.81	G
ATOM	15485	CD2	LEU	G	972	34.992	128.688	53.930	1.00	78.81	G
ATOM	15486	C	LEU	G	972	33.397	132.108	55.281	1.00	52.38	G
ATOM	15487	O	LEU	G	972	34.309	132.710	54.727	1.00	52.38	G
ATOM	15488	N	ARG	G	973	32.151	132.565	55.331	1.00	30.63	G
ATOM	15489	CA	ARG	G	973	31.800	133.863	54.776	1.00	30.63	G
ATOM	15490	CB	ARG	G	973	30.288	134.083	54.794	1.00	100.07	G
ATOM	15491	CG	ARG	G	973	29.478	133.043	54.042	1.00	100.07	G
ATOM	15492	CD	ARG	G	973	28.040	133.524	53.852	1.00	100.07	G
ATOM	15493	NE	ARG	G	973	27.192	132.529	53.194	1.00	100.07	G
ATOM	15494	CZ	ARG	G	973	26.032	132.802	52.598	1.00	100.07	G
ATOM	15495	NH1	ARG	G	973	25.574	134.047	52.567	1.00	100.07	G
ATOM	15496	NH2	ARG	G	973	25.322	131.827	52.039	1.00	100.07	G
ATOM	15497	C	ARG	G	973	32.464	134.843	55.728	1.00	30.63	G
ATOM	15498	O	ARG	G	973	32.840	135.946	55.343	1.00	30.63	G
ATOM	15499	N	GLN	G	974	32.599	134.431	56.987	1.00	51.16	G
ATOM	15500	CA	GLN	G	974	33.260	135.268	57.985	1.00	51.16	G
ATOM	15501	CB	GLN	G	974	33.129	134.678	59.408	1.00	99.53	G
ATOM	15502	CG	GLN	G	974	31.688	134.496	59.927	1.00	99.53	G



ATOM	15503	CD	GLN	G	974	31.607	134.163	61.424	1.00	99.53	G
ATOM	15504	OE1	GLN	G	974	32.313	133.287	61.928	1.00	99.53	G
ATOM	15505	NE2	GLN	G	974	30.727	134.859	62.129	1.00	99.53	G
ATOM	15506	C	GLN	G	974	34.735	135.321	57.580	1.00	51.16	G
ATOM	15507	O	GLN	G	974	35.537	136.038	58.188	1.00	51.16	G
ATOM	15508	N	ILE	G	975	35.076	134.532	56.559	1.00	73.80	G
ATOM	15509	CA	ILE	G	975	36.431	134.480	56.018	1.00	73.80	G
ATOM	15510	CB	ILE	G	975	36.876	133.048	55.639	1.00	69.60	G
ATOM	15511	CG2	ILE	G	975	38.374	133.046	55.334	1.00	69.60	G
ATOM	15512	CG1	ILE	G	975	36.519	132.062	56.750	1.00	69.60	G
ATOM	15513	CD	ILE	G	975	37.703	131.415	57.428	1.00	69.60	G
ATOM	15514	C	ILE	G	975	36.376	135.271	54.723	1.00	73.80	G
ATOM	15515	O	ILE	G	975	37.146	136.202	54.515	1.00	73.80	G
ATOM	15516	N	GLU	G	976	35.450	134.879	53.855	1.00	100.07	G
ATOM	15517	CA	GLU	G	976	35.260	135.533	52.564	1.00	100.07	G
ATOM	15518	CB	GLU	G	976	34.044	134.926	51.846	1.00	100.07	G
ATOM	15519	CG	GLU	G	976	34.101	133.401	51.687	1.00	100.07	G
ATOM	15520	CD	GLU	G	976	34.875	132.942	50.454	1.00	100.07	G
ATOM	15521	OE1	GLU	G	976	34.250	132.805	49.378	1.00	100.07	G
ATOM	15522	OE2	GLU	G	976	36.103	132.723	50.561	1.00	100.07	G
ATOM	15523	C	GLU	G	976	35.046	137.032	52.777	1.00	100.07	G
ATOM	15524	O	GLU	G	976	35.492	137.856	51.973	1.00	100.07	G
ATOM	15525	N	GLN	G	977	34.358	137.374	53.865	1.00	83.23	G
ATOM	15526	CA	GLN	G	977	34.090	138.767	54.187	1.00	83.23	G
ATOM	15527	CB	GLN	G	977	32.725	138.920	54.863	1.00	100.07	G
ATOM	15528	CG	GLN	G	977	31.546	138.556	53.958	1.00	100.07	G
ATOM	15529	CD	GLN	G	977	30.210	139.054	54.490	1.00	100.07	G
ATOM	15530	OE1	GLN	G	977	29.901	140.247	54.414	1.00	100.07	G
ATOM	15531	NE2	GLN	G	977	29.415	138.141	55.041	1.00	100.07	G
ATOM	15532	C	GLN	G	977	35.190	139.304	55.084	1.00	83.23	G
ATOM	15533	O	GLN	G	977	35.227	140.495	55.389	1.00	83.23	G
ATOM	15534	N	ALA	G	978	36.081	138.412	55.509	1.00	32.65	G
ATOM	15535	CA	ALA	G	978	37.218	138.798	56.343	1.00	32.65	G
ATOM	15536	CB	ALA	G	978	37.604	137.656	57.273	1.00	100.07	G
ATOM	15537	C	ALA	G	978	38.377	139.129	55.390	1.00	32.65	G
ATOM	15538	O	ALA	G	978	39.435	139.601	55.807	1.00	32.65	G
ATOM	15539	N	ALA	G	979	38.170	138.850	54.107	1.00	95.90	G
ATOM	15540	CA	ALA	G	979	39.175	139.143	53.099	1.00	95.90	G
ATOM	15541	CB	ALA	G	979	39.123	138.128	51.968	1.00	100.07	G
ATOM	15542	C	ALA	G	979	38.827	140.526	52.586	1.00	95.90	G
ATOM	15543	O	ALA	G	979	39.700	141.376	52.422	1.00	95.90	G
ATOM	15544	N	GLU	G	980	37.538	140.741	52.333	1.00	100.05	G
ATOM	15545	CA	GLU	G	980	37.050	142.033	51.870	1.00	100.05	G
ATOM	15546	CB	GLU	G	980	35.573	141.924	51.468	1.00	99.45	G
ATOM	15547	CG	GLU	G	980	35.306	140.904	50.353	1.00	99.45	G
ATOM	15548	CD	GLU	G	980	33.822	140.758	49.996	1.00	99.45	G
ATOM	15549	OE1	GLU	G	980	33.045	140.253	50.839	1.00	99.45	G
ATOM	15550	OE2	GLU	G	980	33.433	141.149	48.868	1.00	99.45	G
ATOM	15551	C	GLU	G	980	37.225	142.964	53.071	1.00	100.05	G
ATOM	15552	O	GLU	G	980	36.253	143.369	53.712	1.00	100.05	G
ATOM	15553	N	MET	G	981	38.489	143.270	53.365	1.00	71.76	G
ATOM	15554	CA	MET	G	981	38.909	144.114	54.484	1.00	71.76	G
ATOM	15555	CB	MET	G	981	38.143	143.754	55.758	1.00	45.47	G
ATOM	15556	CG	MET	G	981	37.002	144.675	56.121	1.00	45.47	G
ATOM	15557	SD	MET	G	981	35.923	143.864	57.316	1.00	45.47	G
ATOM	15558	CE	MET	G	981	34.615	143.305	56.204	1.00	45.47	G
ATOM	15559	C	MET	G	981	40.383	143.803	54.710	1.00	71.76	G
ATOM	15560	O	MET	G	981	41.166	143.726	53.762	1.00	71.76	G
ATOM	15561	N	GLY	G	982	40.746	143.606	55.971	1.00	75.90	G
ATOM	15562	CA	GLY	G	982	42.119	143.287	56.306	1.00	75.90	G
ATOM	15563	C	GLY	G	982	42.354	141.798	56.158	1.00	75.90	G
ATOM	15564	O	GLY	G	982	42.964	141.167	57.029	1.00	75.90	G
ATOM	15565	N	ALA	G	983	41.855	141.252	55.046	1.00	100.07	G
ATOM	15566	CA	ALA	G	983	41.964	139.830	54.702	1.00	100.07	G
ATOM	15567	CB	ALA	G	983	42.307	139.665	53.204	1.00	32.44	G
ATOM	15568	C	ALA	G	983	43.003	139.113	55.533	1.00	100.07	G
ATOM	15569	O	ALA	G	983	42.671	138.387	56.470	1.00	100.07	G
ATOM	15570	N	LEU	G	984	44.256	139.343	55.152	1.00	83.75	G
ATOM	15571	CA	LEU	G	984	45.453	138.777	55.764	1.00	83.75	G
ATOM	15572	CB	LEU	G	984	45.126	137.645	56.745	1.00	100.07	G
ATOM	15573	CG	LEU	G	984	44.647	138.015	58.151	1.00	100.07	G
ATOM	15574	CD1	LEU	G	984	44.551	136.742	58.987	1.00	100.07	G
ATOM	15575	CD2	LEU	G	984	45.608	139.012	58.796	1.00	100.07	G
ATOM	15576	C	LEU	G	984	46.338	138.225	54.654	1.00	83.75	G
ATOM	15577	O	LEU	G	984	47.294	137.492	54.923	1.00	83.75	G
ATOM	15578	N	THR	G	985	46.010	138.586	53.413	1.00	74.79	G
ATOM	15579	CA	THR	G	985	46.743	138.135	52.231	1.00	74.79	G
ATOM	15580	CB	THR	G	985	48.236	137.839	52.512	1.00	50.42	G
ATOM	15581	OG1	THR	G	985	48.754	138.751	53.489	1.00	50.42	G
ATOM	15582	CG2	THR	G	985	49.043	137.944	51.211	1.00	50.42	G
ATOM	15583	C	THR	G	985	46.154	136.822	51.741	1.00	74.79	G
ATOM	15584	O	THR	G	985	45.797	135.953	52.542	1.00	74.79	G
ATOM	15585	N	ASP	G	986	46.073	136.663	50.427	1.00	99.98	G
ATOM	15586	CA	ASP	G	986	45.546	135.429	49.860	1.00	99.98	G



ATOM	15587	CB	ASP	G	986	45.780	135.417	48.340	1.00	70.09	G
ATOM	15588	CG	ASP	G	986	44.960	134.362	47.623	1.00	70.09	G
ATOM	15589	OD1	ASP	G	986	43.716	134.381	47.743	1.00	70.09	G
ATOM	15590	OD2	ASP	G	986	45.564	133.518	46.928	1.00	70.09	G
ATOM	15591	C	ASP	G	986	46.287	134.273	50.551	1.00	99.98	G
ATOM	15592	O	ASP	G	986	45.659	133.376	51.113	1.00	99.98	G
ATOM	15593	N	ARG	G	987	47.620	134.333	50.533	1.00	78.96	G
ATOM	15594	CA	ARG	G	987	48.476	133.318	51.150	1.00	78.96	G
ATOM	15595	CB	ARG	G	987	49.862	133.885	51.463	1.00	100.07	G
ATOM	15596	CG	ARG	G	987	50.903	133.739	50.375	1.00	100.07	G
ATOM	15597	CD	ARG	G	987	52.304	133.890	50.976	1.00	100.07	G
ATOM	15598	NE	ARG	G	987	53.366	133.604	50.014	1.00	100.07	G
ATOM	15599	CZ	ARG	G	987	54.645	133.435	50.339	1.00	100.07	G
ATOM	15600	NH1	ARG	G	987	55.033	133.522	51.604	1.00	100.07	G
ATOM	15601	NH2	ARG	G	987	55.541	133.173	49.398	1.00	100.07	G
ATOM	15602	C	ARG	G	987	47.929	132.757	52.445	1.00	78.96	G
ATOM	15603	O	ARG	G	987	47.896	131.542	52.639	1.00	78.96	G
ATOM	15604	N	GLU	G	988	47.520	133.652	53.339	1.00	41.85	G
ATOM	15605	CA	GLU	G	988	47.013	133.241	54.639	1.00	41.85	G
ATOM	15606	CB	GLU	G	988	47.095	134.407	55.617	1.00	100.07	G
ATOM	15607	CG	GLU	G	988	48.452	135.095	55.588	1.00	100.07	G
ATOM	15608	CD	GLU	G	988	49.597	134.125	55.316	1.00	100.07	G
ATOM	15609	OE1	GLU	G	988	49.717	133.122	56.055	1.00	100.07	G
ATOM	15610	OE2	GLU	G	988	50.375	134.368	54.364	1.00	100.07	G
ATOM	15611	C	GLU	G	988	45.598	132.724	54.541	1.00	41.85	G
ATOM	15612	O	GLU	G	988	45.237	131.746	55.198	1.00	41.85	G
ATOM	15613	N	ARG	G	989	44.803	133.374	53.700	1.00	56.58	G
ATOM	15614	CA	ARG	G	989	43.423	132.964	53.505	1.00	56.58	G
ATOM	15615	CB	ARG	G	989	42.772	133.839	52.442	1.00	52.10	G
ATOM	15616	CG	ARG	G	989	41.293	134.030	52.648	1.00	52.10	G
ATOM	15617	CD	ARG	G	989	40.804	135.169	51.789	1.00	52.10	G
ATOM	15618	NE	ARG	G	989	39.617	134.794	51.032	1.00	52.10	G
ATOM	15619	CZ	ARG	G	989	39.570	133.783	50.172	1.00	52.10	G
ATOM	15620	NH1	ARG	G	989	40.650	133.033	49.954	1.00	52.10	G
ATOM	15621	NH2	ARG	G	989	38.437	133.523	49.531	1.00	52.10	G
ATOM	15622	C	ARG	G	989	43.408	131.489	53.090	1.00	56.58	G
ATOM	15623	O	ARG	G	989	42.542	130.730	53.521	1.00	56.58	G
ATOM	15624	N	TYR	G	990	44.366	131.094	52.248	1.00	100.07	G
ATOM	15625	CA	TYR	G	990	44.479	129.692	51.838	1.00	100.07	G
ATOM	15626	CB	TYR	G	990	45.761					



ATOM	15671	CG	GLN	G	995	44.708	125.547	60.264	1.00100.07	G
ATOM	15672	CD	GLN	G	995	45.751	126.484	60.847	1.00100.07	G
ATOM	15673	OE1	GLN	G	995	45.488	127.669	61.077	1.00100.07	G
ATOM	15674	NE2	GLN	G	995	46.949	125.958	61.083	1.00100.07	G
ATOM	15675	C	GLN	G	995	42.071	124.791	58.657	1.00 43.22	G
ATOM	15676	O	GLN	G	995	41.827	124.107	59.646	1.00 43.22	G
ATOM	15677	N	LEU	G	996	41.134	125.471	58.010	1.00 48.66	G
ATOM	15678	CA	LEU	G	996	39.754	125.395	58.447	1.00 48.66	G
ATOM	15679	CB	LEU	G	996	38.888	126.424	57.714	1.00 24.68	G
ATOM	15680	CG	LEU	G	996	37.379	126.150	57.639	1.00 24.68	G
ATOM	15681	CD1	LEU	G	996	36.837	125.913	59.035	1.00 24.68	G
ATOM	15682	CD2	LEU	G	996	36.665	127.306	56.951	1.00 24.68	G
ATOM	15683	C	LEU	G	996	39.283	123.994	58.119	1.00 48.66	G
ATOM	15684	O	LEU	G	996	39.166	123.147	58.999	1.00 48.66	G
ATOM	15685	N	TRP	G	997	39.044	123.751	56.835	1.00 24.05	G
ATOM	15686	CA	TRP	G	997	38.561	122.458	56.387	1.00 24.05	G
ATOM	15687	CB	TRP	G	997	38.665	122.366	54.875	1.00 29.82	G
ATOM	15688	CG	TRP	G	997	37.605	123.170	54.247	1.00 29.82	G
ATOM	15689	CD2	TRP	G	997	36.191	123.017	54.431	1.00 29.82	G
ATOM	15690	CE2	TRP	G	997	35.557	124.006	53.649	1.00 29.82	G
ATOM	15691	CE3	TRP	G	997	35.398	122.136	55.179	1.00 29.82	G
ATOM	15692	CD1	TRP	G	997	37.769	124.212	53.395	1.00 29.82	G
ATOM	15693	NE1	TRP	G	997	36.545	124.724	53.026	1.00 29.82	G
ATOM	15694	CZ2	TRP	G	997	34.158	124.143	53.591	1.00 29.82	G
ATOM	15695	CZ3	TRP	G	997	34.009	122.270	55.122	1.00 29.82	G
ATOM	15696	CH2	TRP	G	997	33.405	123.268	54.331	1.00 29.82	G
ATOM	15697	C	TRP	G	997	39.293	121.329	57.060	1.00 24.05	G
ATOM	15698	O	TRP	G	997	38.693	120.333	57.460	1.00 24.05	G
ATOM	15699	N	THR	G	998	40.596	121.495	57.206	1.00 38.79	G
ATOM	15700	CA	THR	G	998	41.382	120.478	57.861	1.00 38.79	G
ATOM	15701	CB	THR	G	998	42.862	120.874	57.908	1.00 75.07	G
ATOM	15702	OG1	THR	G	998	43.425	120.758	56.595	1.00 75.07	G
ATOM	15703	CG2	THR	G	998	43.622	119.982	58.875	1.00 75.07	G
ATOM	15704	C	THR	G	998	40.837	120.343	59.270	1.00 38.79	G
ATOM	15705	O	THR	G	998	40.408	119.270	59.682	1.00 38.79	G
ATOM	15706	N	GLU	G	999	40.831	121.453	59.996	1.00 73.09	G
ATOM	15707	CA	GLU	G	999	40.344	121.486	61.367	1.00 73.09	G
ATOM	15708	CB	GLU	G	999	40.299	122.943	61.845	1.00 99.81	G
ATOM	15709	CG	GLU	G	999	39.789	123.164	63.261	1.00 99.81	G
ATOM	15710	CD	GLU	G	999	40.741	124.002	64.107	1.00 99.81	G
ATOM	15711	OE1	GLU	G	999	41.475	124.844	63.541	1.00 99.81	G



ATOM	15755	CA	THR	G1005	35.617	111.912	61.692	1.00	29.83	G
ATOM	15756	CB	THR	G1005	37.144	112.039	61.555	1.00	100.07	G
ATOM	15757	OG1	THR	G1005	37.474	112.585	60.273	1.00	100.07	G
ATOM	15758	CG2	THR	G1005	37.803	110.682	61.717	1.00	100.07	G
ATOM	15759	C	THR	G1005	35.328	111.397	63.102	1.00	29.83	G
ATOM	15760	O	THR	G1005	34.555	110.461	63.302	1.00	29.83	G
ATOM	15761	N	GLN	G1006	35.968	112.032	64.078	1.00	20.60	G
ATOM	15762	CA	GLN	G1006	35.802	111.716	65.494	1.00	20.60	G
ATOM	15763	CB	GLN	G1006	36.556	112.772	66.307	1.00	99.92	G
ATOM	15764	CG	GLN	G1006	36.337	112.758	67.796	1.00	99.92	G
ATOM	15765	CD	GLN	G1006	36.748	114.077	68.425	1.00	99.92	G
ATOM	15766	OE1	GLN	G1006	36.080	115.100	68.253	1.00	99.92	G
ATOM	15767	NE2	GLN	G1006	37.862	114.065	69.142	1.00	99.92	G
ATOM	15768	C	GLN	G1006	34.307	111.732	65.841	1.00	20.60	G
ATOM	15769	O	GLN	G1006	33.881	111.172	66.841	1.00	20.60	G
ATOM	15770	N	ALA	G1007	33.515	112.382	64.995	1.00	31.60	G
ATOM	15771	CA	ALA	G1007	32.076	112.492	65.198	1.00	31.60	G
ATOM	15772	CB	ALA	G1007	31.524	113.653	64.391	1.00	95.22	G
ATOM	15773	C	ALA	G1007	31.433	111.210	64.750	1.00	31.60	G
ATOM	15774	O	ALA	G1007	31.092	110.357	65.563	1.00	31.60	G
ATOM	15775	N	VAL	G1008	31.276	111.090	63.438	1.00	32.17	G
ATOM	15776	CA	VAL	G1008	30.690	109.907	62.830	1.00	32.17	G
ATOM	15777	CB	VAL	G1008	30.996	109.855	61.349	1.00	100.07	G
ATOM	15778	CG1	VAL	G1008	30.366	108.621	60.752	1.00	100.07	G
ATOM	15779	CG2	VAL	G1008	30.492	111.112	60.679	1.00	100.07	G
ATOM	15780	C	VAL	G1008	31.239	108.630	63.446	1.00	32.17	G
ATOM	15781	O	VAL	G1008	30.519	107.653	63.636	1.00	32.17	G
ATOM	15782	N	PHE	G1009	32.524	108.650	63.762	1.00	59.69	G
ATOM	15783	CA	PHE	G1009	33.172	107.490	64.340	1.00	59.69	G
ATOM	15784	CB	PHE	G1009	34.681	107.590	64.169	1.00	53.76	G
ATOM	15785	CG	PHE	G1009	35.331	106.286	63.850	1.00	53.76	G
ATOM	15786	CD1	PHE	G1009	35.590	105.935	62.538	1.00	53.76	G
ATOM	15787	CD2	PHE	G1009	35.663	105.399	64.860	1.00	53.76	G
ATOM	15788	CE1	PHE	G1009	36.169	104.727	62.234	1.00	53.76	G
ATOM	15789	CE2	PHE	G1009	36.242	104.186	64.567	1.00	53.76	G
ATOM	15790	CZ	PHE	G1009	36.497	103.849	63.250	1.00	53.76	G
ATOM	15791	C	PHE	G1009	32.866	107.332	65.815	1.00	59.69	G
ATOM	15792	O	PHE	G1009	33.252	106.342	66.432	1.00	59.69	G
ATOM	15793	N	ASN	G1010	32.175	108.307	66.385	1.00	80.37	G
ATOM	15794	CA	ASN	G1010	31.854	108.250	67.804	1.00	80.37	G
ATOM	15795	CB	ASN	G1010	32.055	109.625	68.434	1.00	100.07	G
ATOM	15796	CG	ASN	G1010	32.197	109.554	69.929	1.00	100.07	G
ATOM	15797	OD1	ASN	G1010	31.345	108.984	70.613	1.00	100.07	G
ATOM	15798	ND2	ASN	G1010	33.280	110.130	70.453	1.00	100.07	G
ATOM	15799	C	ASN	G1010	30.425	107.789	68.035	1.00	80.37	G
ATOM	15800	O	ASN	G1010	30.128	107.112	69.026	1.00	80.37	G
ATOM	15801	N	ASN	G1011	29.553	108.163	67.100	1.00	51.35	G
ATOM	15802	CA	ASN	G1011	28.143	107.822	67.167	1.00	51.35	G
ATOM	15803	CB	ASN	G1011	27.463	108.003	65.807	1.00	24.43	G
ATOM	15804	CG	ASN	G1011	25.942	107.939	65.909	1.00	24.43	G
ATOM	15805	OD1	ASN	G1011	25.399	107.794	67.008	1.00	24.43	G
ATOM	15806	ND2	ASN	G1011	25.249	108.052	64.771	1.00	24.43	G
ATOM	15807	C	ASN	G1011	27.937	106.395	67.611	1.00	51.35	G
ATOM	15808	O	ASN	G1011	27.208	106.137	68.574	1.00	51.35	G
ATOM	15809	N	PHE	G1012	28.581	105.459	66.916	1.00	30.82	G
ATOM	15810	CA	PHE	G1012	28.387	104.069	67.276	1.00	30.82	G
ATOM	15811	CB	PHE	G1012	28.832	103.118	66.144	1.00	83.90	G
ATOM	15812	CG	PHE	G1012	30.308	102.907	66.051	1.00	83.90	G
ATOM	15813	CD1	PHE	G1012	31.076	103.653	65.171	1.00	83.90	G
ATOM	15814	CD2	PHE	G1012	30.931	101.937	66.830	1.00	83.90	G
ATOM	15815	CE1	PHE	G1012	32.449	103.435	65.067	1.00	83.90	G
ATOM	15816	CE2	PHE	G1012	32.297	101.712	66.737	1.00	83.90	G
ATOM	15817	CZ	PHE	G1012	33.060	102.460	65.854	1.00	83.90	G
ATOM	15818	C	PHE	G1012	29.030	103.703	68.600	1.00	30.82	G
ATOM	15819	O	PHE	G1012	28.472	102.904	69.364	1.00	30.82	G
ATOM	15820	N	GLU	G1013	30.165	104.312	68.918	1.00	19.23	G
ATOM	15821	CA	GLU	G1013	30.805	103.951	70.170	1.00	19.23	G
ATOM	15822	CB	GLU	G1013	31.945	104.902	70.523	1.00	100.07	G
ATOM	15823	CG	GLU	G1013	32.981	104.239	71.434	1.00	100.07	G
ATOM	15824	CD	GLU	G1013	33.979	105.221	72.032	1.00	100.07	G
ATOM	15825	OE1	GLU	G1013	33.603	105.950	72.980	1.00	100.07	G
ATOM	15826	OE2	GLU	G1013	35.138	105.269	71.552	1.00	100.07	G
ATOM	15827	C	GLU	G1013	29.790	103.928	71.303	1.00	19.23	G
ATOM	15828	O	GLU	G1013	29.998	103.259	72.307	1.00	19.23	G
ATOM	15829	N	GLU	G1014	28.682	104.639	71.136	1.00	57.43	G
ATOM	15830	CA	GLU	G1014	27.668	104.674	72.177	1.00	57.43	G
ATOM	15831	CB	GLU	G1014	27.414	106.110	72.616	1.00	99.43	G
ATOM	15832	CG	GLU	G1014	28.679	106.924	72.770	1.00	99.43	G
ATOM	15833	CD	GLU	G1014	28.407	108.312	73.290	1.00	99.43	G
ATOM	15834	OE1	GLU	G1014	27.410	108.931	72.857	1.00	99.43	G
ATOM	15835	OE2	GLU	G1014	29.200	108.785	74.126	1.00	99.43	G
ATOM	15836	C	GLU	G1014	26.376	104.054	71.696	1.00	57.43	G
ATOM	15837	O	GLU	G1014	25.816	103.206	72.372	1.00	57.43	G
ATOM	15838	N	ASN	G1015	25.888	104.493	70.543	1.00	74.08	G



ATOM	15839	CA	ASN	G1015	24.665	103.926	69.985	1.00	74.08	G
ATOM	15840	CB	ASN	G1015	23.743	105.018	69.456	1.00	87.88	G
ATOM	15841	CG	ASN	G1015	23.795	106.260	70.290	1.00	87.88	G
ATOM	15842	OD1	ASN	G1015	23.993	106.189	71.502	1.00	87.88	G
ATOM	15843	ND2	ASN	G1015	23.608	107.414	69.654	1.00	87.88	G
ATOM	15844	C	ASN	G1015	25.113	103.053	68.827	1.00	74.08	G
ATOM	15845	O	ASN	G1015	25.681	103.565	67.870	1.00	74.08	G
ATOM	15846	N	TYR	G1016	24.847	101.750	68.912	1.00	31.52	G
ATOM	15847	CA	TYR	G1016	25.236	100.771	67.891	1.00	31.52	G
ATOM	15848	CB	TYR	G1016	25.433	101.441	66.529	1.00	23.52	G
ATOM	15849	CG	TYR	G1016	24.223	102.177	66.003	1.00	23.52	G
ATOM	15850	CD1	TYR	G1016	23.125	102.433	66.818	1.00	23.52	G
ATOM	15851	CE1	TYR	G1016	22.003	103.103	66.327	1.00	23.52	G
ATOM	15852	CD2	TYR	G1016	24.173	102.608	64.683	1.00	23.52	G
ATOM	15853	CE2	TYR	G1016	23.063	103.269	64.179	1.00	23.52	G
ATOM	15854	CZ	TYR	G1016	21.976	103.518	65.000	1.00	23.52	G
ATOM	15855	OH	TYR	G1016	20.863	104.173	64.503	1.00	23.52	G
ATOM	15856	C	TYR	G1016	26.548	100.093	68.293	1.00	31.52	G
ATOM	15857	O	TYR	G1016	27.556	100.254	67.606	1.00	31.52	G
ATOM	15858	N	PRO	G1017	26.554	99.332	69.408	1.00	48.22	G
ATOM	15859	CD	PRO	G1017	25.356	98.835	70.111	1.00	99.89	G
ATOM	15860	CA	PRO	G1017	27.760	98.634	69.880	1.00	48.22	G
ATOM	15861	CB	PRO	G1017	27.244	97.832	71.071	1.00	99.89	G
ATOM	15862	CG	PRO	G1017	25.831	97.513	70.665	1.00	99.89	G
ATOM	15863	C	PRO	G1017	28.266	97.746	68.735	1.00	48.22	G
ATOM	15864	O	PRO	G1017	29.338	97.988	68.177	1.00	48.22	G
ATOM	15865	N	PHE	G1018	27.506	96.702	68.411	1.00	40.21	G
ATOM	15866	CA	PHE	G1018	27.837	95.866	67.273	1.00	40.21	G
ATOM	15867	CB	PHE	G1018	27.365	94.428	67.429	1.00	30.87	G
ATOM	15868	CG	PHE	G1018	27.435	93.907	68.820	1.00	30.87	G
ATOM	15869	CD1	PHE	G1018	26.489	94.276	69.760	1.00	30.87	G
ATOM	15870	CD2	PHE	G1018	28.441	93.030	69.191	1.00	30.87	G
ATOM	15871	CE1	PHE	G1018	26.546	93.774	71.055	1.00	30.87	G
ATOM	15872	CE2	PHE	G1018	28.512	92.519	70.477	1.00	30.87	G
ATOM	15873	CZ	PHE	G1018	27.565	92.889	71.414	1.00	30.87	G
ATOM	15874	C	PHE	G1018	26.887	96.562	66.328	1.00	40.21	G
ATOM	15875	O	PHE	G1018	26.684	97.771	66.440	1.00	40.21	G
ATOM	15876	N	ALA	G1019	26.286	95.827	65.404	1.00	100.07	G
ATOM	15877	CA	ALA	G1019	25.342	96.447	64.478	1.00	100.07	G
ATOM	15878	CB	ALA	G1019	24.063	96.871	65.237	1.00	49.74	G
ATOM	15879	C	ALA	G1019	25.917	97.653	63.720	1.00	100.07	G
ATOM	15880	O	ALA	G1019	25.16					



ATOM	15923	CB	ALA	G1026	36.339	99.514	61.777	1.00	65.03	G
ATOM	15924	C	ALA	G1026	37.678	98.301	63.490	1.00	19.14	G
ATOM	15925	O	ALA	G1026	38.877	98.334	63.737	1.00	19.14	G
ATOM	15926	N	SER	G1027	36.754	98.305	64.437	1.00	48.99	G
ATOM	15927	CA	SER	G1027	37.101	98.315	65.851	1.00	48.99	G
ATOM	15928	CB	SER	G1027	35.852	98.000	66.671	1.00100.07		G
ATOM	15929	OG	SER	G1027	35.212	96.830	66.183	1.00100.07		G
ATOM	15930	C	SER	G1027	38.205	97.293	66.163	1.00	48.99	G
ATOM	15931	O	SER	G1027	38.736	97.237	67.277	1.00	48.99	G
ATOM	15932	N	GLY	G1028	38.548	96.487	65.168	1.00	18.82	G
ATOM	15933	CA	GLY	G1028	39.569	95.486	65.359	1.00	18.82	G
ATOM	15934	C	GLY	G1028	39.142	94.220	64.658	1.00	18.82	G
ATOM	15935	O	GLY	G1028	38.309	93.468	65.168	1.00	18.82	G
ATOM	15936	N	ALA	G1029	39.711	94.003	63.474	1.00	26.00	G
ATOM	15937	CA	ALA	G1029	39.420	92.835	62.643	1.00	26.00	G
ATOM	15938	CB	ALA	G1029	37.917	92.568	62.619	1.00100.07		G
ATOM	15939	C	ALA	G1029	39.939	93.033	61.211	1.00	26.00	G
ATOM	15940	O	ALA	G1029	41.006	92.528	60.850	1.00	26.00	G
ATOM	15941	N	ALA	G1030	39.178	93.771	60.407	1.00	21.88	G
ATOM	15942	CA	ALA	G1030	39.565	94.026	59.033	1.00	21.88	G
ATOM	15943	CB	ALA	G1030	39.231	92.793	58.194	1.00	5.07	G
ATOM	15944	C	ALA	G1030	38.962	95.321	58.409	1.00	21.88	G
ATOM	15945	O	ALA	G1030	38.502	95.326	57.254	1.00	21.88	G
ATOM	15946	N	GLY	G1031	39.006	96.416	59.174	1.00	38.70	G
ATOM	15947	CA	GLY	G1031	38.482	97.698	58.716	1.00	38.70	G
ATOM	15948	C	GLY	G1031	39.555	98.728	58.388	1.00	38.70	G
ATOM	15949	O	GLY	G1031	40.404	98.443	57.559	1.00	38.70	G
ATOM	15950	N	ASN	G1032	39.501	99.902	59.032	1.00	39.45	G
ATOM	15951	CA	ASN	G1032	40.433	101.045	58.869	1.00	39.45	G
ATOM	15952	CB	ASN	G1032	41.222	100.955	57.546	1.00	58.33	G
ATOM	15953	CG	ASN	G1032	40.573	101.731	56.385	1.00	58.33	G
ATOM	15954	OD1	ASN	G1032	40.478	102.953	56.426	1.00	58.33	G
ATOM	15955	ND2	ASN	G1032	40.153	101.016	55.339	1.00	58.33	G
ATOM	15956	C	ASN	G1032	39.613	102.341	58.892	1.00	39.45	G
ATOM	15957	O	ASN	G1032	38.833	102.579	57.971	1.00	39.45	G
ATOM	15958	N	PRO	G1033	39.766	103.192	59.940	1.00	70.33	G
ATOM	15959	CD	PRO	G1033	40.675	103.006	61.077	1.00	19.66	G
ATOM	15960	CA	PRO	G1033	39.041	104.467	60.100	1.00	70.33	G
ATOM	15961	CB	PRO	G1033	39.534	104.995	61.442	1.00	19.66	G
ATOM	15962	CG	PRO	G1033	40.869	104.437	61.542	1.00	19.66	G
ATOM	15963	C	PRO	G1033	39.193	105.499	59.005	1.00	70.33	G
ATOM	15964	O	PRO	G1033	38.264	106.260	58.754	1.00	70.33	G
ATOM	15965	N	GLN	G1034	40.363	105.552	58.377	1.00	55.87	G
ATOM	15966	CA	GLN	G1034	40.563	106.481	57.275	1.00	55.87	G
ATOM	15967	CB	GLN	G1034	41.847	106.155	56.540	1.00	99.58	G
ATOM	15968	CG	GLN	G1034	43.027	105.991	57.436	1.00	99.58	G
ATOM	15969	CD	GLN	G1034	44.202	105.435	56.684	1.00	99.58	G
ATOM	15970	OE1	GLN	G1034	44.547	105.924	55.607	1.00	99.58	G
ATOM	15971	NE2	GLN	G1034	44.829	104.404	57.240	1.00	99.58	G
ATOM	15972	C	GLN	G1034	39.387	106.224	56.336	1.00	55.87	G
ATOM	15973	O	GLN	G1034	38.699	107.148	55.894	1.00	55.87	G
ATOM	15974	N	ALA	G1035	39.168	104.950	56.033	1.00	39.34	G
ATOM	15975	CA	ALA	G1035	38.067	104.562	55.177	1.00	39.34	G
ATOM	15976	CB	ALA	G1035	37.945	103.052	55.127	1.00	74.13	G
ATOM	15977	C	ALA	G1035	36.797	105.182	55.752	1.00	39.34	G
ATOM	15978	O	ALA	G1035	36.286	106.138	55.180	1.00	39.34	G
ATOM	15979	N	ILE	G1036	36.312	104.663	56.886	1.00	24.89	G
ATOM	15980	CA	ILE	G1036	35.095	105.176	57.530	1.00	24.89	G
ATOM	15981	CB	ILE	G1036	34.932	104.625	58.966	1.00	18.32	G
ATOM	15982	CG2	ILE	G1036	33.647	105.118	59.556	1.00	18.32	G
ATOM	15983	CG1	ILE	G1036	34.815	103.107	58.964	1.00	18.32	G
ATOM	15984	CD	ILE	G1036	36.084	102.410	58.683	1.00	18.32	G
ATOM	15985	C	ILE	G1036	35.060	106.715	57.592	1.00	24.89	G
ATOM	15986	O	ILE	G1036	34.034	107.340	57.269	1.00	24.89	G
ATOM	15987	N	ARG	G1037	36.179	107.314	58.011	1.00	42.24	G
ATOM	15988	CA	ARG	G1037	36.328	108.776	58.089	1.00	42.24	G
ATOM	15989	CB	ARG	G1037	37.740	109.148	58.567	1.00100.07		G
ATOM	15990	CG	ARG	G1037	38.227	110.531	58.112	1.00100.07		G
ATOM	15991	CD	ARG	G1037	39.709	110.730	58.357	1.00100.07		G
ATOM	15992	NE	ARG	G1037	40.302	111.669	57.405	1.00100.07		G
ATOM	15993	CZ	ARG	G1037	41.591	112.008	57.391	1.00100.07		G
ATOM	15994	NH1	ARG	G1037	42.426	111.487	58.282	1.00100.07		G
ATOM	15995	NH2	ARG	G1037	42.053	112.865	56.487	1.00100.07		G
ATOM	15996	C	ARG	G1037	36.115	109.347	56.694	1.00	42.24	G
ATOM	15997	O	ARG	G1037	36.341	110.533	56.443	1.00	42.24	G
ATOM	15998	N	GLN	G1038	35.692	108.471	55.791	1.00	20.38	G
ATOM	15999	CA	GLN	G1038	35.439	108.809	54.409	1.00	20.38	G
ATOM	16000	CB	GLN	G1038	36.716	108.553	53.591	1.00100.07		G
ATOM	16001	CG	GLN	G1038	36.659	107.425	52.584	1.00100.07		G
ATOM	16002	CD	GLN	G1038	37.971	107.252	51.831	1.00100.07		G
ATOM	16003	OE1	GLN	G1038	38.454	108.172	51.168	1.00100.07		G
ATOM	16004	NE2	GLN	G1038	38.552	106.064	51.933	1.00100.07		G
ATOM	16005	C	GLN	G1038	34.262	107.949	53.942	1.00	20.38	G
ATOM	16006	O	GLN	G1038	33.441	108.367	53.124	1.00	20.38	G







ATOM	16091	N	ALA	G1052	49.575	121.148	45.678	1.00	37.38	G
ATOM	16092	CA	ALA	G1052	48.552	122.099	46.076	1.00	37.38	G
ATOM	16093	CB	ALA	G1052	48.304	123.098	44.930	1.00	36.85	G
ATOM	16094	C	ALA	G1052	47.249	121.401	46.476	1.00	37.38	G
ATOM	16095	O	ALA	G1052	46.880	120.372	45.904	1.00	37.38	G
ATOM	16096	N	THR	G1053	46.567	121.963	47.472	1.00	47.47	G
ATOM	16097	CA	THR	G1053	45.294	121.424	47.956	1.00	47.47	G
ATOM	16098	CB	THR	G1053	45.148	121.581	49.483	1.00	100.07	G
ATOM	16099	OG1	THR	G1053	46.060	120.700	50.149	1.00	100.07	G
ATOM	16100	CG2	THR	G1053	43.722	121.266	49.916	1.00	100.07	G
ATOM	16101	C	THR	G1053	44.132	122.165	47.317	1.00	47.47	G
ATOM	16102	O	THR	G1053	44.203	123.376	47.079	1.00	47.47	G
ATOM	16103	N	PHE	G1054	43.054	121.444	47.046	1.00	54.78	G
ATOM	16104	CA	PHE	G1054	41.905	122.089	46.448	1.00	54.78	G
ATOM	16105	CB	PHE	G1054	41.107	121.090	45.616	1.00	38.67	G
ATOM	16106	CG	PHE	G1054	41.775	120.722	44.312	1.00	38.67	G
ATOM	16107	CD1	PHE	G1054	42.420	119.499	44.158	1.00	38.67	G
ATOM	16108	CD2	PHE	G1054	41.748	121.597	43.232	1.00	38.67	G
ATOM	16109	CE1	PHE	G1054	43.014	119.159	42.951	1.00	38.67	G
ATOM	16110	CE2	PHE	G1054	42.346	121.260	42.024	1.00	38.67	G
ATOM	16111	CZ	PHE	G1054	42.974	120.045	41.884	1.00	38.67	G
ATOM	16112	C	PHE	G1054	41.031	122.751	47.504	1.00	54.78	G
ATOM	16113	O	PHE	G1054	40.428	122.082	48.346	1.00	54.78	G
ATOM	16114	N	GLU	G1055	40.993	124.079	47.435	1.00	58.79	G
ATOM	16115	CA	GLU	G1055	40.240	124.926	48.341	1.00	58.79	G
ATOM	16116	CB	GLU	G1055	40.417	126.379	47.892	1.00	98.67	G
ATOM	16117	CG	GLU	G1055	39.668	127.417	48.708	1.00	98.67	G
ATOM	16118	CD	GLU	G1055	40.077	128.838	48.360	1.00	98.67	G
ATOM	16119	OE1	GLU	G1055	40.192	129.150	47.156	1.00	98.67	G
ATOM	16120	OE2	GLU	G1055	40.276	129.649	49.289	1.00	98.67	G
ATOM	16121	C	GLU	G1055	38.749	124.583	48.490	1.00	58.79	G
ATOM	16122	O	GLU	G1055	37.997	125.343	49.100	1.00	58.79	G
ATOM	16123	N	VAL	G1056	38.313	123.445	47.945	1.00	36.77	G
ATOM	16124	CA	VAL	G1056	36.906	123.026	48.059	1.00	36.77	G
ATOM	16125	CB	VAL	G1056	36.123	123.284	46.760	1.00	35.12	G
ATOM	16126	CG1	VAL	G1056	34.649	122.929	46.958	1.00	35.12	G
ATOM	16127	CG2	VAL	G1056	36.287	124.741	46.337	1.00	35.12	G
ATOM	16128	C	VAL	G1056	36.788	121.542	48.391	1.00	36.77	G
ATOM	16129	O	VAL	G1056	37.109	120.691	47.576	1.00	36.77	G
ATOM	16130	N	PRO	G1057	36.327	121.220	49.605	1.00	45.23	G
ATOM	16131	CD	PRO	G1057	35.995	122.170	50.679	1.00	100.07	G
ATOM	16132	CA	PRO	G1057	36.159	119.844	50.071	1.00	45.23	G
ATOM	16133	CB	PRO	G1057	35.880	120.014	51.559	1.00	100.07	G
ATOM	16134	CG	PRO	G1057	35.181	121.313	51.618	1.00	100.07	G
ATOM	16135	C	PRO	G1057	35.064	119.081	49.340	1.00	45.23	G
ATOM	16136	O	PRO	G1057	34.674	119.474	48.230	1.00	45.23	G
ATOM	16137	N	VAL	G1058	34.554	118.011	49.958	1.00	49.19	G
ATOM	16138	CA	VAL	G1058	33.544	117.197	49.287	1.00	49.19	G
ATOM	16139	CB	VAL	G1058	34.187	115.907	48.756	1.00	67.57	G
ATOM	16140	CG1	VAL	G1058	33.615	115.586	47.374	1.00	67.57	G
ATOM	16141	CG2	VAL	G1058	35.707	116.046	48.730	1.00	67.57	G
ATOM	16142	C	VAL	G1058	32.235	116.773	49.971	1.00	49.19	G
ATOM	16143	O	VAL	G1058	32.082	116.845	51.190	1.00	49.19	G
ATOM	16144	N	ALA	G1059	31.299	116.318	49.133	1.00	56.79	G
ATOM	16145	CA	ALA	G1059	29.991	115.810	49.566	1.00	56.79	G
ATOM	16146	CB	ALA	G1059	28.936	116.016	48.480	1.00	53.14	G
ATOM	16147	C	ALA	G1059	30.278	114.346	49.699	1.00	56.79	G
ATOM	16148	O	ALA	G1059	29.563	113.504	49.168	1.00	56.79	G
ATOM	16149	N	SER	G1060	31.344	114.065	50.423	1.00	44.75	G
ATOM	16150	CA	SER	G1060	31.822	112.715	50.583	1.00	44.75	G
ATOM	16151	CB	SER	G1060	33.166	112.735	51.307	1.00	100.07	G
ATOM	16152	OG	SER	G1060	34.187	113.222	50.453	1.00	100.07	G
ATOM	16153	C	SER	G1060	30.948	111.665	51.213	1.00	44.75	G
ATOM	16154	O	SER	G1060	31.382	110.525	51.330	1.00	44.75	G
ATOM	16155	N	SER	G1061	29.735	112.002	51.620	1.00	91.29	G
ATOM	16156	CA	SER	G1061	28.906	110.978	52.234	1.00	91.29	G
ATOM	16157	CB	SER	G1061	27.421	111.250	51.961	1.00	31.24	G
ATOM	16158	OG	SER	G1061	26.868	112.171	52.893	1.00	31.24	G
ATOM	16159	C	SER	G1061	29.302	109.574	51.729	1.00	91.29	G
ATOM	16160	O	SER	G1061	29.409	108.642	52.528	1.00	91.29	G
ATOM	16161	N	PHE	G1062	29.577	109.451	50.422	1.00	60.01	G
ATOM	16162	CA	PHE	G1062	29.941	108.173	49.774	1.00	60.01	G
ATOM	16163	CB	PHE	G1062	31.177	107.531	50.426	1.00	59.48	G
ATOM	16164	CG	PHE	G1062	32.367	107.356	49.481	1.00	59.48	G
ATOM	16165	CD1	PHE	G1062	32.912	108.438	48.793	1.00	59.48	G
ATOM	16166	CD2	PHE	G1062	32.977	106.117	49.330	1.00	59.48	G
ATOM	16167	CE1	PHE	G1062	34.048	108.281	47.977	1.00	59.48	G
ATOM	16168	CE2	PHE	G1062	34.107	105.961	48.518	1.00	59.48	G
ATOM	16169	CZ	PHE	G1062	34.638	107.044	47.846	1.00	59.48	G
ATOM	16170	C	PHE	G1062	28.721	107.280	49.934	1.00	60.01	G
ATOM	16171	O	PHE	G1062	28.233	106.696	48.976	1.00	60.01	G
ATOM	16172	N	ARG	G1063	28.231	107.197	51.164	1.00	63.31	G
ATOM	16173	CA	ARG	G1063	27.027	106.458	51.483	1.00	63.31	G
ATOM	16174	CB	ARG	G1063	26.768	106.528	52.997	1.00	46.23	G



ATOM	16175	CG	ARG	G1063	25.404	106.010	53.448	1.00	46.23	G
ATOM	16176	CD	ARG	G1063	24.309	107.032	53.187	1.00	46.23	G
ATOM	16177	NE	ARG	G1063	22.956	106.509	53.358	1.00	46.23	G
ATOM	16178	CZ	ARG	G1063	22.492	105.972	54.482	1.00	46.23	G
ATOM	16179	NH1	ARG	G1063	23.272	105.872	55.552	1.00	46.23	G
ATOM	16180	NH2	ARG	G1063	21.236	105.549	54.539	1.00	46.23	G
ATOM	16181	C	ARG	G1063	25.935	107.206	50.713	1.00	63.31	G
ATOM	16182	O	ARG	G1063	24.848	106.689	50.461	1.00	63.31	G
ATOM	16183	N	ALA	G1064	26.243	108.442	50.342	1.00	53.81	G
ATOM	16184	CA	ALA	G1064	25.304	109.266	49.605	1.00	53.81	G
ATOM	16185	CB	ALA	G1064	24.887	110.466	50.430	1.00	100.00.07	G
ATOM	16186	C	ALA	G1064	25.934	109.722	48.310	1.00	53.81	G
ATOM	16187	O	ALA	G1064	27.155	109.797	48.186	1.00	53.81	G
ATOM	16188	N	GLY	G1065	25.077	110.027	47.346	1.00	100.00.07	G
ATOM	16189	CA	GLY	G1065	25.538	110.451	46.045	1.00	100.00.07	G
ATOM	16190	C	GLY	G1065	26.752	111.350	46.040	1.00	100.00.07	G
ATOM	16191	O	GLY	G1065	26.602	112.568	46.109	1.00	100.00.07	G
ATOM	16192	N	LEU	G1066	27.951	110.768	45.976	1.00	30.93	G
ATOM	16193	CA	LEU	G1066	29.171	111.570	45.902	1.00	30.93	G
ATOM	16194	CB	LEU	G1066	30.423	110.692	46.014	1.00	17.99	G
ATOM	16195	CG	LEU	G1066	31.718	111.425	45.639	1.00	17.99	G
ATOM	16196	CD1	LEU	G1066	31.775	112.698	46.437	1.00	17.99	G
ATOM	16197	CD2	LEU	G1066	32.948	110.593	45.892	1.00	17.99	G
ATOM	16198	C	LEU	G1066	29.144	112.252	44.531	1.00	30.93	G
ATOM	16199	O	LEU	G1066	30.179	112.636	43.988	1.00	30.93	G
ATOM	16200	N	THR	G1067	27.934	112.371	43.983	1.00	51.81	G
ATOM	16201	CA	THR	G1067	27.670	112.995	42.685	1.00	51.81	G
ATOM	16202	CB	THR	G1067	26.306	113.748	42.693	1.00	100.00.07	G
ATOM	16203	OG1	THR	G1067	25.237	112.820	42.936	1.00	100.00.07	G
ATOM	16204	CG2	THR	G1067	26.075	114.456	41.360	1.00	100.00.07	G
ATOM	16205	C	THR	G1067	28.769	113.987	42.348	1.00	51.81	G
ATOM	16206	O	THR	G1067	29.286	114.008	41.231	1.00	51.81	G
ATOM	16207	N	VAL	G1068	29.110	114.807	43.333	1.00	57.77	G
ATOM	16208	CA	VAL	G1068	30.157	115.796	43.191	1.00	57.77	G
ATOM	16209	CB	VAL	G1068	30.963	115.937	44.503	1.00	100.00.07	G
ATOM	16210	CG1	VAL	G1068	31.207	117.387	44.802	1.00	100.00.07	G
ATOM	16211	CG2	VAL	G1068	30.221	115.286	45.654	1.00	100.00.07	G
ATOM	16212	C	VAL	G1068	31.115	115.356	42.093	1.00	57.77	G
ATOM	16213	O	VAL	G1068	32.024	114.560	42.335	1.00	57.77	G
ATOM	16214	N	LEU	G1069	30.887	115.842	40.876	1.00	44.05	G
ATOM	16215	CA	LEU	G1069	31.772	115.516	39.773	1.00	44	



ATOM	16259	CD	ILE	G1073	37.044	118.837	41.302	1.00	28.53	G
ATOM	16260	C	ILE	G1073	39.975	115.516	42.556	1.00	20.50	G
ATOM	16261	O	ILE	G1073	41.208	115.458	42.667	1.00	20.50	G
ATOM	16262	N	SER	G1074	39.177	114.583	43.063	1.00	48.50	G
ATOM	16263	CA	SER	G1074	39.747	113.474	43.815	1.00	48.50	G
ATOM	16264	CB	SER	G1074	38.648	112.735	44.576	1.00	72.43	G
ATOM	16265	OG	SER	G1074	37.802	112.045	43.684	1.00	72.43	G
ATOM	16266	C	SER	G1074	40.505	112.488	42.924	1.00	48.50	G
ATOM	16267	O	SER	G1074	41.507	111.896	43.346	1.00	48.50	G
ATOM	16268	N	SER	G1075	40.034	112.332	41.688	1.00	35.08	G
ATOM	16269	CA	SER	G1075	40.633	111.400	40.732	1.00	35.08	G
ATOM	16270	CB	SER	G1075	39.968	111.554	39.354	1.00	34.50	G
ATOM	16271	OG	SER	G1075	40.301	112.777	38.717	1.00	34.50	G
ATOM	16272	C	SER	G1075	42.147	111.497	40.573	1.00	35.08	G
ATOM	16273	O	SER	G1075	42.787	110.565	40.087	1.00	35.08	G
ATOM	16274	N	HIS	G1076	42.719	112.616	40.997	1.00	36.55	G
ATOM	16275	CA	HIS	G1076	44.153	112.832	40.863	1.00	36.55	G
ATOM	16276	CB	HIS	G1076	44.486	114.286	41.179	1.00	57.34	G
ATOM	16277	CG	HIS	G1076	43.813	115.252	40.263	1.00	57.34	G
ATOM	16278	CD2	HIS	G1076	42.499	115.488	40.030	1.00	57.34	G
ATOM	16279	ND1	HIS	G1076	44.511	116.060	39.393	1.00	57.34	G
ATOM	16280	CE1	HIS	G1076	43.654	116.751	38.662	1.00	57.34	G
ATOM	16281	NE2	HIS	G1076	42.428	116.421	39.028	1.00	57.34	G
ATOM	16282	C	HIS	G1076	44.996	111.917	41.715	1.00	36.55	G
ATOM	16283	O	HIS	G1076	45.540	110.930	41.228	1.00	36.55	G
ATOM	16284	N	GLY	G1077	45.118	112.262	42.987	1.00	47.07	G
ATOM	16285	CA	GLY	G1077	45.910	111.443	43.878	1.00	47.07	G
ATOM	16286	C	GLY	G1077	45.578	109.996	43.624	1.00	47.07	G
ATOM	16287	O	GLY	G1077	46.477	109.174	43.428	1.00	47.07	G
ATOM	16288	N	ALA	G1078	44.276	109.708	43.607	1.00	44.33	G
ATOM	16289	CA	ALA	G1078	43.766	108.365	43.378	1.00	44.33	G
ATOM	16290	CB	ALA	G1078	42.358	108.439	42.848	1.00	81.23	G
ATOM	16291	C	ALA	G1078	44.670	107.648	42.386	1.00	44.33	G
ATOM	16292	O	ALA	G1078	45.080	106.507	42.614	1.00	44.33	G
ATOM	16293	N	ARG	G1079	44.974	108.324	41.282	1.00	30.21	G
ATOM	16294	CA	ARG	G1079	45.866	107.762	40.278	1.00	30.21	G
ATOM	16295	CB	ARG	G1079	45.807	108.557	38.978	1.00	26.71	G
ATOM	16296	CG	ARG	G1079	44.652	108.157	38.068	1.00	26.71	G
ATOM	16297	CD	ARG	G1079	45.009	106.964	37.178	1.00	26.71	G
ATOM	16298	NE	ARG	G1079	44.777	107.315	35.784	1.00	26.71	G
ATOM	16299	CZ	ARG	G1079	45.529	108.166	35.108	1.00	26.71	G
ATOM	16300	NH1	ARG	G1079	46.569	108.739	35.681	1.00	26.71	G
ATOM	16301	NH2	ARG	G1079	45.213	108.479	33.875	1.00	26.71	G
ATOM	16302	C	ARG	G1079	47.251	107.856	40.858	1.00	30.21	G
ATOM	16303	O	ARG	G1079	47.695	106.941	41.527	1.00	30.21	G
ATOM	16304	N	LYS	G1080	47.914	108.982	40.623	1.00	43.68	G
ATOM	16305	CA	LYS	G1080	49.268	109.212	41.125	1.00	43.68	G
ATOM	16306	CB	LYS	G1080	49.406	110.674	41.583	1.00	99.72	G
ATOM	16307	CG	LYS	G1080	50.839	111.208	41.550	1.00	99.72	G
ATOM	16308	CD	LYS	G1080	50.942	112.633	42.092	1.00	99.72	G
ATOM	16309	CE	LYS	G1080	52.395	113.128	42.089	1.00	99.72	G
ATOM	16310	NZ	LYS	G1080	52.579	114.480	42.710	1.00	99.72	G
ATOM	16311	C	LYS	G1080	49.674	108.251	42.265	1.00	43.68	G
ATOM	16312	O	LYS	G1080	50.712	107.585	42.199	1.00	43.68	G
ATOM	16313	N	GLY	G1081	48.856	108.172	43.308	1.00	73.58	G
ATOM	16314	CA	GLY	G1081	49.183	107.275	44.401	1.00	73.58	G
ATOM	16315	C	GLY	G1081	49.310	105.844	43.908	1.00	73.58	G
ATOM	16316	O	GLY	G1081	49.663	104.936	44.664	1.00	73.58	G
ATOM	16317	N	GLY	G1082	49.019	105.657	42.625	1.00	20.82	G
ATOM	16318	CA	GLY	G1082	49.080	104.348	41.997	1.00	20.82	G
ATOM	16319	C	GLY	G1082	50.159	104.328	40.936	1.00	20.82	G
ATOM	16320	O	GLY	G1082	50.289	103.380	40.146	1.00	20.82	G
ATOM	16321	N	ALA	G1083	50.911	105.422	40.903	1.00	56.23	G
ATOM	16322	CA	ALA	G1083	52.033	105.555	40.001	1.00	56.23	G
ATOM	16323	CB	ALA	G1083	52.226	107.007	39.608	1.00	41.31	G
ATOM	16324	C	ALA	G1083	53.201	105.034	40.859	1.00	56.23	G
ATOM	16325	O	ALA	G1083	54.294	104.761	40.363	1.00	56.23	G
ATOM	16326	N	ASP	G1084	52.951	104.911	42.163	1.00	49.26	G
ATOM	16327	CA	ASP	G1084	53.929	104.345	43.086	1.00	49.26	G
ATOM	16328	CB	ASP	G1084	53.510	104.542	44.548	1.00	99.92	G
ATOM	16329	CG	ASP	G1084	54.124	105.771	45.178	1.00	99.92	G
ATOM	16330	OD1	ASP	G1084	55.339	105.990	44.995	1.00	99.92	G
ATOM	16331	OD2	ASP	G1084	53.393	106.508	45.875	1.00	99.92	G
ATOM	16332	C	ASP	G1084	53.811	102.864	42.750	1.00	49.26	G
ATOM	16333	O	ASP	G1084	54.794	102.124	42.732	1.00	49.26	G
ATOM	16334	N	THR	G1085	52.572	102.452	42.486	1.00	93.32	G
ATOM	16335	CA	THR	G1085	52.234	101.081	42.118	1.00	93.32	G
ATOM	16336	CB	THR	G1085	50.767	101.017	41.631	1.00	71.01	G
ATOM	16337	OG1	THR	G1085	49.894	101.317	42.728	1.00	71.01	G
ATOM	16338	CG2	THR	G1085	50.429	99.648	41.075	1.00	71.01	G
ATOM	16339	C	THR	G1085	53.179	100.589	41.019	1.00	93.32	G
ATOM	16340	O	THR	G1085	53.247	99.397	40.723	1.00	93.32	G
ATOM	16341	N	ALA	G1086	53.905	101.522	40.412	1.00	100.07	G
ATOM	16342	CA	ALA	G1086	54.872	101.184	39.378	1.00	100.07	G



ATOM	16343	CB	ALA	G1086	55.547	102.450	38.846	1.00	80.76	G
ATOM	16344	C	ALA	G1086	55.900	100.296	40.057	1.00	100.07	G
ATOM	16345	O	ALA	G1086	56.518	99.441	39.425	1.00	100.07	G
ATOM	16346	N	LEU	G1087	56.067	100.515	41.358	1.00	86.97	G
ATOM	16347	CA	LEU	G1087	57.003	99.756	42.172	1.00	86.97	G
ATOM	16348	CB	LEU	G1087	57.264	100.492	43.480	1.00	84.06	G
ATOM	16349	CG	LEU	G1087	58.265	99.852	44.440	1.00	84.06	G
ATOM	16350	CD1	LEU	G1087	59.645	99.895	43.834	1.00	84.06	G
ATOM	16351	CD2	LEU	G1087	58.251	100.594	45.775	1.00	84.06	G
ATOM	16352	C	LEU	G1087	56.485	98.345	42.471	1.00	86.97	G
ATOM	16353	O	LEU	G1087	56.336	97.958	43.628	1.00	86.97	G
ATOM	16354	N	ARG	G1088	56.193	97.591	41.414	1.00	99.83	G
ATOM	16355	CA	ARG	G1088	55.729	96.212	41.532	1.00	99.83	G
ATOM	16356	CB	ARG	G1088	54.553	95.942	40.591	1.00	100.07	G
ATOM	16357	CG	ARG	G1088	54.402	94.462	40.249	1.00	100.07	G
ATOM	16358	CD	ARG	G1088	53.293	94.194	39.250	1.00	100.07	G
ATOM	16359	NE	ARG	G1088	53.239	92.777	38.890	1.00	100.07	G
ATOM	16360	CZ	ARG	G1088	52.197	92.187	38.306	1.00	100.07	G
ATOM	16361	NH1	ARG	G1088	51.108	92.887	38.012	1.00	100.07	G
ATOM	16362	NH2	ARG	G1088	52.241	90.892	38.015	1.00	100.07	G
ATOM	16363	C	ARG	G1088	56.897	95.327	41.123	1.00	99.83	G
ATOM	16364	O	ARG	G1088	57.164	94.300	41.750	1.00	99.83	G
ATOM	16365	N	THR	G1089	57.578	95.735	40.052	1.00	47.42	G
ATOM	16366	CA	THR	G1089	58.729	95.007	39.540	1.00	47.42	G
ATOM	16367	CB	THR	G1089	58.886	95.212	38.020	1.00	100.07	G
ATOM	16368	OG1	THR	G1089	58.031	94.290	37.329	1.00	100.07	G
ATOM	16369	CG2	THR	G1089	60.332	94.993	37.586	1.00	100.07	G
ATOM	16370	C	THR	G1089	59.979	95.492	40.263	1.00	47.42	G
ATOM	16371	O	THR	G1089	60.905	94.718	40.533	1.00	47.42	G
ATOM	16372	N	ALA	G1090	60.005	96.777	40.580	1.00	100.07	G
ATOM	16373	CA	ALA	G1090	61.137	97.317	41.305	1.00	100.07	G
ATOM	16374	CB	ALA	G1090	61.026	98.838	41.383	1.00	100.07	G
ATOM	16375	C	ALA	G1090	61.176	96.675	42.716	1.00	100.07	G
ATOM	16376	O	ALA	G1090	60.951	97.328	43.749	1.00	100.07	G
ATOM	16377	N	ASP	G1091	61.443	95.369	42.717	1.00	53.59	G
ATOM	16378	CA	ASP	G1091	61.560	94.536	43.913	1.00	53.59	G
ATOM	16379	CB	ASP	G1091	60.204	93.931	44.289	1.00	100.07	G
ATOM	16380	CG	ASP	G1091	59.757	92.837	43.327	1.00	100.07	G
ATOM	16381	OD1	ASP	G1091	59.722	93.080	42.101	1.00	100.07	G
ATOM	16382	OD2	ASP	G1091	59.431	91.731	43.805	1.00	100.07	G
ATOM	16383	C	ASP	G1091	62.490	93.453	43.399	1.00	53.59	G
ATOM	16384	O	ASP	G1091	63.373	92.947	44.112	1.00	53.59	G
ATOM	16385	N	SER	G1092	62.251	93.128	42.128	1.00	95.38	G
ATOM	16386	CA	SER	G1092	63.023	92.157	41.372	1.00	95.38	G
ATOM	16387	CB	SER	G1092	62.170	91.484	40.281	1.00	100.07	G
ATOM	16388	OG	SER	G1092	61.129	90.683	40.817	1.00	100.07	G
ATOM	16389	C	SER	G1092	64.095	93.014	40.716	1.00	95.38	G
ATOM	16390	O	SER	G1092	63.918	93.524	39.609	1.00	95.38	G
ATOM	16391	N	GLY	G1093	65.199	93.192	41.425	1.00	99.90	G
ATOM	16392	CA	GLY	G1093	66.277	93.997	40.895	1.00	99.90	G
ATOM	16393	C	GLY	G1093	66.861	94.877	41.975	1.00	99.90	G
ATOM	16394	O	GLY	G1093	68.077	95.077	42.039	1.00	99.90	G
ATOM	16395	N	TYR	G1094	66.003	95.412	42.835	1.00	44.83	G
ATOM	16396	CA	TYR	G1094	66.505	96.256	43.888	1.00	44.83	G
ATOM	16397	CB	TYR	G1094	65.902	97.670	43.798	1.00	67.32	G
ATOM	16398	CG	TYR	G1094	66.882	98.719	43.284	1.00	67.32	G
ATOM	16399	CD1	TYR	G1094	66.626	99.438	42.111	1.00	67.32	G
ATOM	16400	CE1	TYR	G1094	67.558	100.382	41.609	1.00	67.32	G
ATOM	16401	CD2	TYR	G1094	68.087	98.968	43.955	1.00	67.32	G
ATOM	16402	CE2	TYR	G1094	69.018	99.906	43.469	1.00	67.32	G
ATOM	16403	CZ	TYR	G1094	68.753	100.608	42.295	1.00	67.32	G
ATOM	16404	OH	TYR	G1094	69.682	101.515	41.807	1.00	67.32	G
ATOM	16405	C	TYR	G1094	66.284	95.663	45.265	1.00	44.83	G
ATOM	16406	O	TYR	G1094	65.579	94.658	45.441	1.00	44.83	G
ATOM	16407	N	LEU	G1095	66.937	96.318	46.222	1.00	70.38	G
ATOM	16408	CA	LEU	G1095	66.938	96.001	47.638	1.00	70.38	G
ATOM	16409	CB	LEU	G1095	65.576	96.293	48.257	1.00	79.21	G
ATOM	16410	CG	LEU	G1095	65.724	96.563	49.760	1.00	79.21	G
ATOM	16411	CD1	LEU	G1095	66.901	97.484	50.019	1.00	79.21	G
ATOM	16412	CD2	LEU	G1095	64.447	97.176	50.309	1.00	79.21	G
ATOM	16413	C	LEU	G1095	67.396	94.602	47.999	1.00	70.38	G
ATOM	16414	O	LEU	G1095	68.594	94.380	48.143	1.00	70.38	G
ATOM	16415	N	THR	G1096	66.469	93.659	48.143	1.00	20.62	G
ATOM	16416	CA	THR	G1096	66.862	92.304	48.522	1.00	20.62	G
ATOM	16417	CB	THR	G1096	65.821	91.266	48.176	1.00	21.56	G
ATOM	16418	OG1	THR	G1096	64.554	91.671	48.677	1.00	21.56	G
ATOM	16419	CG2	THR	G1096	66.188	89.957	48.803	1.00	21.56	G
ATOM	16420	C	THR	G1096	68.118	91.885	47.790	1.00	20.62	G
ATOM	16421	O	THR	G1096	69.128	91.523	48.410	1.00	20.62	G
ATOM	16422	N	ARG	G1097	68.039	91.931	46.461	1.00	41.74	G
ATOM	16423	CA	ARG	G1097	69.154	91.554	45.607	1.00	41.74	G
ATOM	16424	CB	ARG	G1097	68.906	92.026	44.169	1.00	30.60	G
ATOM	16425	CG	ARG	G1097	69.768	91.316	43.116	1.00	30.60	G
ATOM	16426	CD	ARG	G1097	69.448	91.724	41.656	1.00	30.60	G



ATOM	16427	NE	ARG	G1097	68.074	91.432	41.234	1.00	30.60	G
ATOM	16428	CZ	ARG	G1097	67.467	90.257	41.381	1.00	30.60	G
ATOM	16429	NH1	ARG	G1097	68.095	89.239	41.949	1.00	30.60	G
ATOM	16430	NH2	ARG	G1097	66.228	90.093	40.944	1.00	30.60	G
ATOM	16431	C	ARG	G1097	70.388	92.219	46.181	1.00	41.74	G
ATOM	16432	O	ARG	G1097	71.259	91.552	46.750	1.00	41.74	G
ATOM	16433	N	LYS	G1098	70.437	93.541	46.077	1.00	42.11	G
ATOM	16434	CA	LYS	G1098	71.577	94.290	46.587	1.00	42.11	G
ATOM	16435	CB	LYS	G1098	71.287	95.794	46.517	1.00	64.01	G
ATOM	16436	CG	LYS	G1098	70.912	96.233	45.104	1.00	64.01	G
ATOM	16437	CD	LYS	G1098	71.387	97.629	44.751	1.00	64.01	G
ATOM	16438	CE	LYS	G1098	71.324	97.817	43.238	1.00	64.01	G
ATOM	16439	NZ	LYS	G1098	71.881	99.118	42.752	1.00	64.01	G
ATOM	16440	C	LYS	G1098	71.990	93.866	48.000	1.00	42.11	G
ATOM	16441	O	LYS	G1098	73.178	93.832	48.317	1.00	42.11	G
ATOM	16442	N	LEU	G1099	71.029	93.514	48.844	1.00	27.56	G
ATOM	16443	CA	LEU	G1099	71.385	93.095	50.187	1.00	27.56	G
ATOM	16444	CB	LEU	G1099	70.205	93.224	51.146	1.00	19.19	G
ATOM	16445	CG	LEU	G1099	69.967	94.623	51.696	1.00	19.19	G
ATOM	16446	CD1	LEU	G1099	69.308	95.475	50.634	1.00	19.19	G
ATOM	16447	CD2	LEU	G1099	69.098	94.539	52.928	1.00	19.19	G
ATOM	16448	C	LEU	G1099	71.906	91.678	50.254	1.00	27.56	G
ATOM	16449	O	LEU	G1099	72.923	91.427	50.896	1.00	27.56	G
ATOM	16450	N	VAL	G1100	71.217	90.748	49.603	1.00	50.00	G
ATOM	16451	CA	VAL	G1100	71.642	89.356	49.656	1.00	50.00	G
ATOM	16452	CB	VAL	G1100	70.719	88.428	48.849	1.00	23.71	G
ATOM	16453	CG1	VAL	G1100	70.939	86.991	49.293	1.00	23.71	G
ATOM	16454	CG2	VAL	G1100	69.277	88.826	49.024	1.00	23.71	G
ATOM	16455	C	VAL	G1100	73.056	89.170	49.132	1.00	50.00	G
ATOM	16456	O	VAL	G1100	73.817	88.355	49.674	1.00	50.00	G
ATOM	16457	N	ASP	G1101	73.392	89.918	48.076	1.00	90.08	G
ATOM	16458	CA	ASP	G1101	74.715	89.856	47.456	1.00	90.08	G
ATOM	16459	CB	ASP	G1101	74.790	90.774	46.235	1.00	70.60	G
ATOM	16460	CG	ASP	G1101	74.333	90.090	44.954	1.00	70.60	G
ATOM	16461	OD1	ASP	G1101	74.641	88.888	44.775	1.00	70.60	G
ATOM	16462	OD2	ASP	G1101	73.684	90.761	44.116	1.00	70.60	G
ATOM	16463	C	ASP	G1101	75.794	90.261	48.447	1.00	90.08	G
ATOM	16464	O	ASP	G1101	76.888	89.698	48.454	1.00	90.08	G
ATOM	16465	N	VAL	G1102	75.479	91.258	49.269	1.00	37.65	G
ATOM	16466	CA	VAL	G1102	76.386	91.753	50.302	1.00	37.65	G
ATOM	16467	CB	VAL	G1102	76.268	93.275	50.477	1.00	32.78	G
ATOM	16468	CG1	VAL	G1102	77.236	93.745	51.511	1.00	32.78	G
ATOM	16469	CG2	VAL	G1102	76.509	93.977	49.175	1.00	32.78	G
ATOM	16470	C	VAL	G1102	75.850	91.151	51.577	1.00	37.65	G
ATOM	16471	O	VAL	G1102	75.069	91.812	52.245	1.00	37.65	G
ATOM	16472	N	ALA	G1103	76.238	89.919	51.907	1.00	19.95	G
ATOM	16473	CA	ALA	G1103	75.753	89.236	53.127	1.00	19.95	G
ATOM	16474	CB	ALA	G1103	74.347	89.710	53.502	1.00	5.07	G
ATOM	16475	C	ALA	G1103	75.725	87.723	52.933	1.00	19.95	G
ATOM	16476	O	ALA	G1103	75.953	86.963	53.892	1.00	19.95	G
ATOM	16477	N	HIS	G1104	75.411	87.308	51.697	1.00	33.27	G
ATOM	16478	CA	HIS	G1104	75.359	85.902	51.293	1.00	33.27	G
ATOM	16479	CB	HIS	G1104	76.207	85.700	50.035	1.00	99.06	G
ATOM	16480	CG	HIS	G1104	76.412	84.263	49.668	1.00	99.06	G
ATOM	16481	CD2	HIS	G1104	76.629	83.665	48.475	1.00	99.06	G
ATOM	16482	ND1	HIS	G1104	76.390	83.246	50.605	1.00	99.06	G
ATOM	16483	CE1	HIS	G1104	76.577	82.088	50.001	1.00	99.06	G
ATOM	16484	NE2	HIS	G1104	76.726	82.310	48.706	1.00	99.06	G
ATOM	16485	C	HIS	G1104	75.913	84.995	52.389	1.00	33.27	G
ATOM	16486	O	HIS	G1104	75.187	84.238	53.032	1.00	33.27	G
ATOM	16487	N	GLU	G1105	77.227	85.120	52.572	1.00	33.95	G
ATOM	16488	CA	GLU	G1105	78.044	84.359	53.511	1.00	33.95	G
ATOM	16489	CB	GLU	G1105	79.492	84.738	53.298	1.00	61.18	G
ATOM	16490	CG	GLU	G1105	79.756	86.201	53.453	1.00	61.18	G
ATOM	16491	CD	GLU	G1105	80.925	86.639	52.608	1.00	61.18	G
ATOM	16492	OE1	GLU	G1105	81.857	85.824	52.433	1.00	61.18	G
ATOM	16493	OE2	GLU	G1105	80.919	87.792	52.119	1.00	61.18	G
ATOM	16494	C	GLU	G1105	77.765	84.389	55.000	1.00	33.95	G
ATOM	16495	O	GLU	G1105	77.658	83.333	55.609	1.00	33.95	G
ATOM	16496	N	ILE	G1106	77.675	85.576	55.599	1.00	37.01	G
ATOM	16497	CA	ILE	G1106	77.442	85.675	57.045	1.00	37.01	G
ATOM	16498	CB	ILE	G1106	76.808	87.012	57.458	1.00	9.16	G
ATOM	16499	CG2	ILE	G1106	76.363	86.939	58.890	1.00	9.16	G
ATOM	16500	CG1	ILE	G1106	77.794	88.155	57.262	1.00	9.16	G
ATOM	16501	CD	ILE	G1106	78.118	88.385	55.822	1.00	9.16	G
ATOM	16502	C	ILE	G1106	76.531	84.581	57.550	1.00	37.01	G
ATOM	16503	O	ILE	G1106	75.422	84.428	57.055	1.00	37.01	G
ATOM	16504	N	VAL	G1107	76.998	83.832	58.544	1.00	34.39	G
ATOM	16505	CA	VAL	G1107	76.225	82.734	59.120	1.00	34.39	G
ATOM	16506	CB	VAL	G1107	76.448	81.418	58.322	1.00	10.86	G
ATOM	16507	CG1	VAL	G1107	75.886	80.234	59.079	1.00	10.86	G
ATOM	16508	CG2	VAL	G1107	75.808	81.511	56.951	1.00	10.86	G
ATOM	16509	C	VAL	G1107	76.630	82.481	60.571	1.00	34.39	G
ATOM	16510	O	VAL	G1107	77.575	83.078	61.088	1.00	34.39	G



ATOM	16511	N	VAL	G1108	75.883	81.616	61.241	1.00	74.13	G
ATOM	16512	CA	VAL	G1108	76.202	81.253	62.603	1.00	74.13	G
ATOM	16513	CB	VAL	G1108	74.998	80.588	63.307	1.00	94.80	G
ATOM	16514	CG1	VAL	G1108	75.430	80.009	64.642	1.00	94.80	G
ATOM	16515	CG2	VAL	G1108	73.877	81.607	63.503	1.00	94.80	G
ATOM	16516	C	VAL	G1108	77.326	80.243	62.446	1.00	74.13	G
ATOM	16517	O	VAL	G1108	77.209	79.280	61.686	1.00	74.13	G
ATOM	16518	N	ALA	G1109	78.428	80.484	63.139	1.00	80.78	G
ATOM	16519	CA	ALA	G1109	79.571	79.588	63.079	1.00	80.78	G
ATOM	16520	CB	ALA	G1109	80.559	80.078	62.031	1.00100.07	G	G
ATOM	16521	C	ALA	G1109	80.225	79.542	64.458	1.00	80.78	G
ATOM	16522	O	ALA	G1109	80.878	80.505	64.880	1.00	80.78	G
ATOM	16523	N	ALA	G1110	80.036	78.421	65.154	1.00	75.91	G
ATOM	16524	CA	ALA	G1110	80.580	78.219	66.497	1.00	75.91	G
ATOM	16525	CB	ALA	G1110	81.997	78.799	66.604	1.00100.07	G	G
ATOM	16526	C	ALA	G1110	79.674	78.871	67.530	1.00	75.91	G
ATOM	16527	O	ALA	G1110	78.789	79.653	67.189	1.00	75.91	G
ATOM	16528	N	ALA	G1111	79.891	78.543	68.797	1.00100.07	G	G
ATOM	16529	CA	ALA	G1111	79.082	79.118	69.857	1.00100.07	G	G
ATOM	16530	CB	ALA	G1111	79.348	78.405	71.165	1.00	58.97	G
ATOM	16531	C	ALA	G1111	79.401	80.600	69.989	1.00100.07	G	G
ATOM	16532	O	ALA	G1111	79.284	81.357	69.025	1.00100.07	G	G
ATOM	16533	N	ALA	G1112	79.808	81.014	71.183	1.00100.07	G	G
ATOM	16534	CA	ALA	G1112	80.125	82.415	71.429	1.00100.07	G	G
ATOM	16535	CB	ALA	G1112	79.212	82.969	72.532	1.00100.07	G	G
ATOM	16536	C	ALA	G1112	81.589	82.631	71.803	1.00100.07	G	G
ATOM	16537	O	ALA	G1112	82.048	82.185	72.855	1.00100.07	G	G
ATOM	16538	N	CYS	G1113	82.314	83.325	70.933	1.00	79.58	G
ATOM	16539	CA	CYS	G1113	83.720	83.617	71.169	1.00	79.58	G
ATOM	16540	CB	CYS	G1113	84.318	84.306	69.948	1.00	54.65	G
ATOM	16541	SG	CYS	G1113	83.687	85.968	69.714	1.00	54.65	G
ATOM	16542	C	CYS	G1113	83.868	84.527	72.392	1.00	79.58	G
ATOM	16543	O	CYS	G1113	83.153	84.370	73.387	1.00	79.58	G
ATOM	16544	N	ALA	G1114	84.786	85.487	72.305	1.00	85.23	G
ATOM	16545	CA	ALA	G1114	85.042	86.414	73.404	1.00	85.23	G
ATOM	16546	CB	ALA	G1114	86.548	86.629	73.563	1.00	77.65	G
ATOM	16547	C	ALA	G1114	84.341	87.762	73.266	1.00	85.23	G
ATOM	16548	O	ALA	G1114	84.315	88.365	72.188	1.00	85.23	G
ATOM	16549	N	ALA	G1115	83.777	88.224	74.380	1.00	93.16	G
ATOM	16550	CA	ALA	G1115	83.086	89.504	74.429	1.00	93.16	G
ATOM	16551	CB	ALA	G1115	82.504	89.738	75.814	1.00100.07	G	G
ATOM	16552	C	ALA	G1115	84.094	90.586	74.107	1.00	93	







ATOM	16679	CG2	THR	G1132	63.562	117.589	75.879	1.00	62.99	G
ATOM	16680	C	THR	G1132	65.417	115.559	74.190	1.00	77.69	G
ATOM	16681	O	THR	G1132	65.805	115.001	73.165	1.00	77.69	G
ATOM	16682	N	LEU	G1133	64.943	114.883	75.231	1.00	64.19	G
ATOM	16683	CA	LEU	G1133	64.892	113.428	75.208	1.00	64.19	G
ATOM	16684	CB	LEU	G1133	65.770	112.891	76.326	1.00	56.52	G
ATOM	16685	CG	LEU	G1133	67.187	113.433	76.167	1.00	56.52	G
ATOM	16686	CD1	LEU	G1133	68.121	112.787	77.179	1.00	56.52	G
ATOM	16687	CD2	LEU	G1133	67.658	113.148	74.735	1.00	56.52	G
ATOM	16688	C	LEU	G1133	63.499	112.829	75.300	1.00	64.19	G
ATOM	16689	O	LEU	G1133	62.511	113.541	75.442	1.00	64.19	G
ATOM	16690	N	ARG	G1134	63.419	111.508	75.209	1.00	56.37	G
ATOM	16691	CA	ARG	G1134	62.131	110.831	75.282	1.00	56.37	G
ATOM	16692	CB	ARG	G1134	61.496	110.742	73.901	1.00	100.07	G
ATOM	16693	CG	ARG	G1134	61.361	112.070	73.188	1.00	100.07	G
ATOM	16694	CD	ARG	G1134	60.659	111.872	71.869	1.00	100.07	G
ATOM	16695	NE	ARG	G1134	61.392	112.486	70.773	1.00	100.07	G
ATOM	16696	CZ	ARG	G1134	61.219	112.165	69.497	1.00	100.07	G
ATOM	16697	NH1	ARG	G1134	60.334	111.230	69.162	1.00	100.07	G
ATOM	16698	NH2	ARG	G1134	61.931	112.776	68.557	1.00	100.07	G
ATOM	16699	C	ARG	G1134	62.297	109.434	75.834	1.00	56.37	G
ATOM	16700	O	ARG	G1134	63.387	108.856	75.773	1.00	56.37	G
ATOM	16701	N	LEU	G1135	61.208	108.880	76.352	1.00	56.74	G
ATOM	16702	CA	LEU	G1135	61.266	107.549	76.931	1.00	56.74	G
ATOM	16703	CB	LEU	G1135	59.902	107.127	77.451	1.00	100.07	G
ATOM	16704	CG	LEU	G1135	59.335	108.146	78.430	1.00	100.07	G
ATOM	16705	CD1	LEU	G1135	58.639	109.261	77.650	1.00	100.07	G
ATOM	16706	CD2	LEU	G1135	58.370	107.459	79.375	1.00	100.07	G
ATOM	16707	C	LEU	G1135	61.749	106.549	75.916	1.00	56.74	G
ATOM	16708	O	LEU	G1135	62.032	105.405	76.269	1.00	56.74	G
ATOM	16709	N	ARG	G1136	61.838	106.995	74.663	1.00	30.68	G
ATOM	16710	CA	ARG	G1136	62.292	106.168	73.551	1.00	30.68	G
ATOM	16711	CB	ARG	G1136	63.505	105.339	73.965	1.00	81.83	G
ATOM	16712	CG	ARG	G1136	64.701	105.467	73.055	1.00	81.83	G
ATOM	16713	CD	ARG	G1136	64.372	105.021	71.654	1.00	81.83	G
ATOM	16714	NE	ARG	G1136	65.323	104.031	71.169	1.00	81.83	G
ATOM	16715	CZ	ARG	G1136	65.356	103.594	69.919	1.00	81.83	G
ATOM	16716	NH1	ARG	G1136	64.493	104.064	69.030	1.00	81.83	G
ATOM	16717	NH2	ARG	G1136	66.246	102.682	69.561	1.00	81.83	G
ATOM	16718	C	ARG	G1136	61.165	105.251	73.121	1.00	30.68	G
ATOM	16719	O	ARG	G1136	60.949	104.200	73.706	1.00	30.68	G
ATOM	16720	N	LYS	G1137	60.447	105.669	72.088	1.00	22.80	G
ATOM	16721	CA	LYS	G1137	59.311	104.920	71.538	1.00	22.80	G
ATOM	16722	CB	LYS	G1137	59.265	105.138	70.013	1.00	99.87	G
ATOM	16723	CG	LYS	G1137	59.594	106.600	69.626	1.00	99.87	G
ATOM	16724	CD	LYS	G1137	59.069	107.043	68.256	1.00	99.87	G
ATOM	16725	CE	LYS	G1137	59.315	108.550	68.041	1.00	99.87	G
ATOM	16726	NZ	LYS	G1137	58.580	109.157	66.878	1.00	99.87	G
ATOM	16727	C	LYS	G1137	59.344	103.431	71.916	1.00	22.80	G
ATOM	16728	O	LYS	G1137	60.252	102.682	71.543	1.00	22.80	G
ATOM	16729	N	ARG	G1138	58.348	103.023	72.692	1.00	44.39	G
ATOM	16730	CA	ARG	G1138	58.238	101.649	73.181	1.00	44.39	G
ATOM	16731	CB	ARG	G1138	56.771	101.330	73.508	1.00	97.36	G
ATOM	16732	CG	ARG	G1138	56.065	102.387	74.382	1.00	97.36	G
ATOM	16733	CD	ARG	G1138	55.571	103.580	73.560	1.00	97.36	G
ATOM	16734	NE	ARG	G1138	54.929	104.606	74.380	1.00	97.36	G
ATOM	16735	CZ	ARG	G1138	54.204	105.606	73.886	1.00	97.36	G
ATOM	16736	NH1	ARG	G1138	54.029	105.706	72.574	1.00	97.36	G
ATOM	16737	NH2	ARG	G1138	53.657	106.508	74.697	1.00	97.36	G
ATOM	16738	C	ARG	G1138	58.804	100.605	72.220	1.00	44.39	G
ATOM	16739	O	ARG	G1138	59.983	100.250	72.307	1.00	44.39	G
ATOM	16740	N	SER	G1139	57.952	100.127	71.315	1.00	55.38	G
ATOM	16741	CA	SER	G1139	58.316	99.126	70.309	1.00	55.38	G
ATOM	16742	CB	SER	G1139	57.523	99.367	69.025	1.00	27.51	G
ATOM	16743	OG	SER	G1139	58.324	99.073	67.891	1.00	27.51	G
ATOM	16744	C	SER	G1139	59.800	99.052	69.957	1.00	55.38	G
ATOM	16745	O	SER	G1139	60.428	98.005	70.112	1.00	55.38	G
ATOM	16746	N	ASP	G1140	60.346	100.163	69.472	1.00	55.18	G
ATOM	16747	CA	ASP	G1140	61.748	100.222	69.082	1.00	55.18	G
ATOM	16748	CB	ASP	G1140	62.195	101.677	68.934	1.00	86.85	G
ATOM	16749	CG	ASP	G1140	61.370	102.436	67.919	1.00	86.85	G
ATOM	16750	OD1	ASP	G1140	61.202	101.929	66.790	1.00	86.85	G
ATOM	16751	OD2	ASP	G1140	60.891	103.541	68.242	1.00	86.85	G
ATOM	16752	C	ASP	G1140	62.650	99.504	70.081	1.00	55.18	G
ATOM	16753	O	ASP	G1140	63.573	98.778	69.694	1.00	55.18	G
ATOM	16754	N	ILE	G1141	62.384	99.704	71.369	1.00	46.74	G
ATOM	16755	CA	ILE	G1141	63.188	99.059	72.387	1.00	46.74	G
ATOM	16756	CB	ILE	G1141	62.717	99.387	73.783	1.00	41.94	G
ATOM	16757	CG2	ILE	G1141	63.697	98.799	74.780	1.00	41.94	G
ATOM	16758	CG1	ILE	G1141	62.568	100.898	73.944	1.00	41.94	G
ATOM	16759	CD	ILE	G1141	63.840	101.648	73.721	1.00	41.94	G
ATOM	16760	C	ILE	G1141	63.036	97.571	72.206	1.00	46.74	G
ATOM	16761	O	ILE	G1141	64.032	96.849	72.163	1.00	46.74	G
ATOM	16762	N	GLU	G1142	61.781	97.118	72.122	1.00	37.83	G



ATOM	16763	CA	GLU	G1142	61.492	95.702	71.923	1.00	37.83	
ATOM	16764	CB	GLU	G1142	60.011	95.478	71.655	1.00	84.79	G
ATOM	16765	CG	GLU	G1142	59.179	95.563	72.902	1.00	84.79	G
ATOM	16766	CD	GLU	G1142	57.702	95.469	72.620	1.00	84.79	G
ATOM	16767	OE1	GLU	G1142	57.308	94.546	71.875	1.00	84.79	G
ATOM	16768	O E2	GLU	G1142	56.939	96.313	73.150	1.00	84.79	G
ATOM	16769	C	GLU	G1142	62.288	95.319	70.711	1.00	37.83	G
ATOM	16770	O	GLU	G1142	63.045	94.348	70.719	1.00	37.83	G
ATOM	16771	N	SER	G1143	62.144	96.131	69.674	1.00	32.09	G
ATOM	16772	CA	SER	G1143	62.853	95.888	68.437	1.00	32.09	G
ATOM	16773	CB	SER	G1143	62.258	96.705	67.292	1.00	33.11	G
ATOM	16774	OG	SER	G1143	62.681	96.176	66.047	1.00	33.11	G
ATOM	16775	C	SER	G1143	64.289	96.280	68.632	1.00	32.09	G
ATOM	16776	O	SER	G1143	64.974	96.588	67.674	1.00	32.09	G
ATOM	16777	N	GLY	G1144	64.742	96.281	69.875	1.00	43.72	G
ATOM	16778	CA	GLY	G1144	66.120	96.640	70.137	1.00	43.72	G
ATOM	16779	C	GLY	G1144	66.783	95.668	71.090	1.00	43.72	G
ATOM	16780	O	GLY	G1144	67.979	95.370	70.991	1.00	43.72	G
ATOM	16781	N	LEU	G1145	65.994	95.153	72.016	1.00	49.01	G
ATOM	16782	CA	LEU	G1145	66.532	94.239	72.987	1.00	49.01	G
ATOM	16783	CB	LEU	G1145	66.350	94.832	74.388	1.00	15.13	G
ATOM	16784	CG	LEU	G1145	66.730	96.310	74.565	1.00	15.13	G
ATOM	16785	CD1	LEU	G1145	66.907	96.601	76.053	1.00	15.13	G
ATOM	16786	CD2	LEU	G1145	68.017	96.627	73.831	1.00	15.13	G
ATOM	16787	C	LEU	G1145	65.926	92.838	72.904	1.00	49.01	G
ATOM	16788	O	LEU	G1145	66.552	91.863	73.323	1.00	49.01	G
ATOM	16789	N	TYR	G1146	64.720	92.709	72.365	1.00	32.08	G
ATOM	16790	CA	TYR	G1146	64.140	91.376	72.286	1.00	32.08	G
ATOM	16791	CB	TYR	G1146	62.919	91.340	71.371	1.00	33.82	G
ATOM	16792	CG	TYR	G1146	62.241	89.993	71.364	1.00	33.82	G
ATOM	16793	CD1	TYR	G1146	61.129	89.744	72.158	1.00	33.82	G
ATOM	16794	CE1	TYR	G1146	60.534	88.477	72.198	1.00	33.82	G
ATOM	16795	CD2	TYR	G1146	62.743	88.951	70.607	1.00	33.82	G
ATOM	16796	CE2	TYR	G1146	62.160	87.686	70.640	1.00	33.82	G
ATOM	16797	CZ	TYR	G1146	61.057	87.453	71.433	1.00	33.82	G
ATOM	16798	OH	TYR	G1146	60.472	86.207	71.442	1.00	33.82	G
ATOM	16799	C	TYR	G1146	65.194	90.463	71.711	1.00	32.08	G
ATOM	16800	O	TYR	G1146	65.957	90.849	70.844	1.00	32.08	G
ATOM	16801	N	GLY	G1147	65.260	89.249	72.204	1.00	27.57	G
ATOM	16802	CA	GLY	G1147	66.242	88.351	71.647	1.00	27.57	G
ATOM	16803	C	GLY	G1147	67.683	88.776	71.838	1.00	27.57	G
ATOM	16804	O	GLY	G1147	68.588					



ATOM	16847	N	GLU	G1153	75.615	92.207	82.857	1.00	47.40	G
ATOM	16848	CA	GLU	G1153	75.210	92.434	84.237	1.00	47.40	G
ATOM	16849	CB	GLU	G1153	76.431	92.717	85.111	1.00100.07		G
ATOM	16850	CG	GLU	G1153	76.099	92.878	86.579	1.00100.07		G
ATOM	16851	CD	GLU	G1153	77.334	93.045	87.435	1.00100.07		G
ATOM	16852	OE1	GLU	G1153	78.173	93.913	87.104	1.00100.07		G
ATOM	16853	OE2	GLU	G1153	77.460	92.312	88.441	1.00100.07		G
ATOM	16854	C	GLU	G1153	74.231	93.601	84.288	1.00	47.40	G
ATOM	16855	O	GLU	G1153	74.627	94.741	84.508	1.00	47.40	G
ATOM	16856	N	VAL	G1154	72.951	93.316	84.058	1.00	76.39	G
ATOM	16857	CA	VAL	G1154	71.943	94.365	84.086	1.00	76.39	G
ATOM	16858	CB	VAL	G1154	70.617	93.919	83.475	1.00	94.04	G
ATOM	16859	CG1	VAL	G1154	69.573	95.013	83.675	1.00	94.04	G
ATOM	16860	CG2	VAL	G1154	70.805	93.624	81.989	1.00	94.04	G
ATOM	16861	C	VAL	G1154	71.714	94.766	85.518	1.00	76.39	G
ATOM	16862	O	VAL	G1154	71.189	94.004	86.325	1.00	76.39	G
ATOM	16863	N	GLU	G1155	72.108	95.999	85.792	1.00	65.33	G
ATOM	16864	CA	GLU	G1155	72.064	96.627	87.109	1.00	65.33	G
ATOM	16865	CB	GLU	G1155	72.732	98.017	87.000	1.00100.07		G
ATOM	16866	CG	GLU	G1155	74.201	98.018	86.523	1.00100.07		G
ATOM	16867	CD	GLU	G1155	74.411	98.755	85.192	1.00100.07		G
ATOM	16868	OE1	GLU	G1155	73.921	99.899	85.051	1.00100.07		G
ATOM	16869	OE2	GLU	G1155	75.077	98.198	84.287	1.00100.07		G
ATOM	16870	C	GLU	G1155	70.764	96.768	87.937	1.00	65.33	G
ATOM	16871	O	GLU	G1155	70.044	95.808	88.223	1.00	65.33	G
ATOM	16872	N	ALA	G1156	70.516	98.010	88.329	1.00100.07		G
ATOM	16873	CA	ALA	G1156	69.407	98.409	89.173	1.00100.07		G
ATOM	16874	CB	ALA	G1156	69.353	99.923	89.204	1.00100.07		G
ATOM	16875	C	ALA	G1156	68.000	97.842	88.994	1.00100.07		G
ATOM	16876	O	ALA	G1156	67.735	96.999	88.147	1.00100.07		G
ATOM	16877	N	LEU	G1157	67.122	98.361	89.849	1.00	65.69	G
ATOM	16878	CA	LEU	G1157	65.705	98.028	89.996	1.00	65.69	G
ATOM	16879	CB	LEU	G1157	64.878	98.417	88.769	1.00	45.45	G
ATOM	16880	CG	LEU	G1157	63.460	98.784	89.262	1.00	45.45	G
ATOM	16881	CD1	LEU	G1157	62.627	99.370	88.153	1.00	45.45	G
ATOM	16882	CD2	LEU	G1157	62.767	97.565	89.831	1.00	45.45	G
ATOM	16883	C	LEU	G1157	65.431	96.580	90.360	1.00	65.69	G
ATOM	16884	O	LEU	G1157	65.752	95.666	89.604	1.00	65.69	G
ATOM	16885	N	GLY	G1158	64.826	96.399	91.534	1.00	49.67	G
ATOM	16886	CA	GLY	G1158	64.491	95.082	92.034	1.00	49.67	G
ATOM	16887	C	GLY	G1158	65.450	93.980	91.623	1.00	49.67	G
ATOM	16888	O	GLY	G1158	66.497	93.798	92.237	1.00	49.67	G
ATOM	16889	N	ARG	G1159	65.080	93.257	90.567	1.00	51.44	G
ATOM	16890	CA	ARG	G1159	65.840	92.127	90.016	1.00	51.44	G
ATOM	16891	CB	ARG	G1159	65.062	91.531	88.826	1.00100.06		G
ATOM	16892	CG	ARG	G1159	65.528	90.152	88.339	1.00100.06		G
ATOM	16893	CD	ARG	G1159	64.511	89.516	87.360	1.00100.06		G
ATOM	16894	NE	ARG	G1159	64.552	88.047	87.390	1.00100.06		G
ATOM	16895	CZ	ARG	G1159	63.644	87.249	86.829	1.00100.06		G
ATOM	16896	NH1	ARG	G1159	62.609	87.767	86.178	1.00100.06		G
ATOM	16897	NH2	ARG	G1159	63.760	85.931	86.934	1.00100.06		G
ATOM	16898	C	ARG	G1159	67.264	92.444	89.581	1.00	51.44	G
ATOM	16899	O	ARG	G1159	67.652	93.599	89.454	1.00	51.44	G
ATOM	16900	N	ARG	G1160	68.038	91.391	89.370	1.00	47.80	G
ATOM	16901	CA	ARG	G1160	69.413	91.516	88.920	1.00	47.80	G
ATOM	16902	CB	ARG	G1160	70.370	91.077	90.018	1.00	92.45	G
ATOM	16903	CG	ARG	G1160	70.382	92.040	91.188	1.00	92.45	G
ATOM	16904	CD	ARG	G1160	70.929	93.394	90.765	1.00	92.45	G
ATOM	16905	NE	ARG	G1160	72.249	93.632	91.336	1.00	92.45	G
ATOM	16906	CZ	ARG	G1160	73.139	94.476	90.832	1.00	92.45	G
ATOM	16907	NH1	ARG	G1160	72.857	95.169	89.740	1.00	92.45	G
ATOM	16908	NH2	ARG	G1160	74.314	94.628	91.425	1.00	92.45	G
ATOM	16909	C	ARG	G1160	69.526	90.605	87.718	1.00	47.80	G
ATOM	16910	O	ARG	G1160	69.137	89.447	87.790	1.00	47.80	G
ATOM	16911	N	LEU	G1161	70.047	91.121	86.610	1.00	61.41	G
ATOM	16912	CA	LEU	G1161	70.156	90.322	85.396	1.00	61.41	G
ATOM	16913	CB	LEU	G1161	69.456	91.072	84.262	1.00	25.98	G
ATOM	16914	CG	LEU	G1161	68.131	91.766	84.658	1.00	25.98	G
ATOM	16915	CD1	LEU	G1161	67.520	92.441	83.447	1.00	25.98	G
ATOM	16916	CD2	LEU	G1161	67.135	90.760	85.234	1.00	25.98	G
ATOM	16917	C	LEU	G1161	71.612	89.994	85.036	1.00	61.41	G
ATOM	16918	O	LEU	G1161	72.358	90.861	84.571	1.00	61.41	G
ATOM	16919	N	GLU	G1162	71.994	88.734	85.263	1.00	63.09	G
ATOM	16920	CA	GLU	G1162	73.346	88.215	85.012	1.00	63.09	G
ATOM	16921	CB	GLU	G1162	73.326	86.689	85.099	1.00100.07		G
ATOM	16922	CG	GLU	G1162	73.055	86.145	86.489	1.00100.07		G
ATOM	16923	CD	GLU	G1162	72.207	84.878	86.477	1.00100.07		G
ATOM	16924	OE1	GLU	G1162	72.550	83.911	85.758	1.00100.07		G
ATOM	16925	OE2	GLU	G1162	71.190	84.851	87.203	1.00100.07		G
ATOM	16926	C	GLU	G1162	73.974	88.622	83.679	1.00	63.09	G
ATOM	16927	O	GLU	G1162	73.356	89.316	82.880	1.00	63.09	G
ATOM	16928	N	GLU	G1163	75.207	88.180	83.445	1.00	62.55	G
ATOM	16929	CA	GLU	G1163	75.917	88.487	82.206	1.00	62.55	G
ATOM	16930	CB	GLU	G1163	77.359	87.994	82.309	1.00	99.38	G



ATOM	16931	CG	GLU	G1163	78.385	88.834	81.571	1.00	99.38	G
ATOM	16932	CD	GLU	G1163	79.802	88.616	82.102	1.00	99.38	G
ATOM	16933	OE1	GLU	G1163	80.300	87.470	82.050	1.00	99.38	G
ATOM	16934	OE2	GLU	G1163	80.421	89.591	82.581	1.00	99.38	G
ATOM	16935	C	GLU	G1163	75.169	87.735	81.113	1.00	62.55	G
ATOM	16936	O	GLU	G1163	74.521	86.734	81.407	1.00	62.55	G
ATOM	16937	N	GLY	G1164	75.239	88.220	79.869	1.00	52.57	G
ATOM	16938	CA	GLY	G1164	74.546	87.575	78.756	1.00	52.57	G
ATOM	16939	C	GLY	G1164	73.403	86.696	79.226	1.00	52.57	G
ATOM	16940	O	GLY	G1164	73.563	85.490	79.413	1.00	52.57	G
ATOM	16941	N	ARG	G1165	72.232	87.287	79.395	1.00	86.83	G
ATOM	16942	CA	ARG	G1165	71.127	86.513	79.912	1.00	86.83	G
ATOM	16943	CB	ARG	G1165	70.579	87.227	81.140	1.00	100.07	G
ATOM	16944	CG	ARG	G1165	69.778	86.335	82.050	1.00	100.07	G
ATOM	16945	CD	ARG	G1165	68.672	87.101	82.724	1.00	100.07	G
ATOM	16946	NE	ARG	G1165	67.837	86.206	83.507	1.00	100.07	G
ATOM	16947	CZ	ARG	G1165	66.639	86.530	83.972	1.00	100.07	G
ATOM	16948	NH1	ARG	G1165	66.140	87.734	83.723	1.00	100.07	G
ATOM	16949	NH2	ARG	G1165	65.945	85.652	84.685	1.00	100.07	G
ATOM	16950	C	ARG	G1165	69.965	86.141	78.989	1.00	86.83	G
ATOM	16951	O	ARG	G1165	69.036	85.464	79.428	1.00	86.83	G
ATOM	16952	N	TYR	G1166	69.995	86.552	77.725	1.00	19.61	G
ATOM	16953	CA	TYR	G1166	68.880	86.230	76.824	1.00	19.61	G
ATOM	16954	CB	TYR	G1166	68.670	84.713	76.691	1.00	70.81	G
ATOM	16955	CG	TYR	G1166	69.613	83.973	75.776	1.00	70.81	G
ATOM	16956	CD1	TYR	G1166	70.882	83.596	76.198	1.00	70.81	G
ATOM	16957	CE1	TYR	G1166	71.745	82.900	75.343	1.00	70.81	G
ATOM	16958	CD2	TYR	G1166	69.230	83.644	74.483	1.00	70.81	G
ATOM	16959	CE2	TYR	G1166	70.084	82.955	73.623	1.00	70.81	G
ATOM	16960	CZ	TYR	G1166	71.336	82.590	74.055	1.00	70.81	G
ATOM	16961	OH	TYR	G1166	72.172	81.915	73.199	1.00	70.81	G
ATOM	16962	C	TYR	G1166	67.622	86.805	77.463	1.00	19.61	G
ATOM	16963	O	TYR	G1166	66.918	86.102	78.209	1.00	19.61	G
ATOM	16964	N	LEU	G1167	67.336	88.073	77.192	1.00	24.43	G
ATOM	16965	CA	LEU	G1167	66.153	88.678	77.778	1.00	24.43	G
ATOM	16966	CB	LEU	G1167	66.435	90.108	78.245	1.00	56.14	G
ATOM	16967	CG	LEU	G1167	67.088	91.099	77.298	1.00	56.14	G
ATOM	16968	CD1	LEU	G1167	67.298	92.407	78.030	1.00	56.14	G
ATOM	16969	CD2	LEU	G1167	68.415	90.556	76.825	1.00	56.14	G
ATOM	16970	C	LEU	G1167	64.985	88.651	76.821	1.00	24.43	G
ATOM	16971	O	LEU	G1167	64.956	89.370	75.819	1.00	24.43	G
ATOM	16972	N	SER	G1168	64.					



ATOM	17015	ND1	HIS	G1173	56.483	94.118	78.056	1.00	76.01	G
ATOM	17016	CE1	HIS	G1173	56.135	94.059	76.784	1.00	76.01	G
ATOM	17017	NE2	HIS	G1173	57.182	94.376	76.048	1.00	76.01	G
ATOM	17018	C	HIS	G1173	60.456	95.661	80.645	1.00	29.78	G
ATOM	17019	O	HIS	G1173	60.603	96.836	80.976	1.00	29.78	G
ATOM	17020	N	PHE	G1174	60.809	94.652	81.431	1.00	27.56	G
ATOM	17021	CA	PHE	G1174	61.406	94.934	82.721	1.00	27.56	G
ATOM	17022	CB	PHE	G1174	62.202	93.751	83.215	1.00	26.64	G
ATOM	17023	CG	PHE	G1174	63.008	94.047	84.435	1.00	26.64	G
ATOM	17024	CD1	PHE	G1174	62.387	94.302	85.646	1.00	26.64	G
ATOM	17025	CD2	PHE	G1174	64.396	94.055	84.381	1.00	26.64	G
ATOM	17026	CE1	PHE	G1174	63.140	94.557	86.791	1.00	26.64	G
ATOM	17027	CE2	PHE	G1174	65.151	94.308	85.517	1.00	26.64	G
ATOM	17028	CZ	PHE	G1174	64.519	94.559	86.726	1.00	26.64	G
ATOM	17029	C	PHE	G1174	62.343	96.118	82.559	1.00	27.56	G
ATOM	17030	O	PHE	G1174	62.168	97.142	83.206	1.00	27.56	G
ATOM	17031	N	LEU	G1175	63.332	95.990	81.687	1.00	24.01	G
ATOM	17032	CA	LEU	G1175	64.246	97.098	81.485	1.00	24.01	G
ATOM	17033	CB	LEU	G1175	65.152	96.852	80.275	1.00	9.68	G
ATOM	17034	CG	LEU	G1175	65.990	95.571	80.233	1.00	9.68	G
ATOM	17035	CD1	LEU	G1175	67.348	95.872	79.692	1.00	9.68	G
ATOM	17036	CD2	LEU	G1175	66.153	95.011	81.596	1.00	9.68	G
ATOM	17037	C	LEU	G1175	63.439	98.385	81.293	1.00	24.01	G
ATOM	17038	O	LEU	G1175	63.660	99.365	82.013	1.00	24.01	G
ATOM	17039	N	ILE	G1176	62.495	98.371	80.346	1.00	15.29	G
ATOM	17040	CA	ILE	G1176	61.637	99.532	80.059	1.00	15.29	G
ATOM	17041	CB	ILE	G1176	60.324	99.113	79.376	1.00	55.80	G
ATOM	17042	CG2	ILE	G1176	59.366	100.304	79.324	1.00	55.80	G
ATOM	17043	CG1	ILE	G1176	60.603	98.575	77.979	1.00	55.80	G
ATOM	17044	CD	ILE	G1176	60.994	99.639	77.012	1.00	55.80	G
ATOM	17045	C	ILE	G1176	61.239	100.362	81.287	1.00	15.29	G
ATOM	17046	O	ILE	G1176	61.729	101.470	81.473	1.00	15.29	G
ATOM	17047	N	LYS	G1177	60.339	99.839	82.110	1.00	68.82	G
ATOM	17048	CA	LYS	G1177	59.896	100.568	83.293	1.00	68.82	G
ATOM	17049	CB	LYS	G1177	58.764	99.800	83.986	1.00	98.64	G
ATOM	17050	CG	LYS	G1177	57.506	99.709	83.122	1.00	98.64	G
ATOM	17051	CD	LYS	G1177	56.423	98.810	83.711	1.00	98.64	G
ATOM	17052	CE	LYS	G1177	55.287	98.607	82.706	1.00	98.64	G
ATOM	17053	NZ	LYS	G1177	54.223	97.689	83.200	1.00	98.64	G
ATOM	17054	C	LYS	G1177	61.055	100.824	84.254	1.00	68.82	G
ATOM	17055	O	LYS	G1177	61.152	101.890	84.870	1.00	68.82	G
ATOM	17056	N	ALA	G1178	61.946	99.850				



ATOM	17099	O	VAL	G1184	67.322	103.373	81.941	1.00	56.21	
ATOM	17100	N	ARG	G1185	69.545	103.563	81.564	1.00	48.00	G
ATOM	17101	CA	ARG	G1185	69.423	104.345	80.332	1.00	48.00	G
ATOM	17102	CB	ARG	G1185	69.996	105.748	80.550	1.00	45.21	G
ATOM	17103	CG	ARG	G1185	68.957	106.865	80.575	1.00	45.21	G
ATOM	17104	CD	ARG	G1185	69.547	108.174	81.096	1.00	45.21	G
ATOM	17105	NE	ARG	G1185	68.556	109.242	81.161	1.00	45.21	G
ATOM	17106	CZ	ARG	G1185	68.153	109.947	80.109	1.00	45.21	G
ATOM	17107	NH1	ARG	G1185	68.664	109.697	78.911	1.00	45.21	G
ATOM	17108	NH2	ARG	G1185	67.230	110.893	80.248	1.00	45.21	G
ATOM	17109	C	ARG	G1185	70.108	103.718	79.113	1.00	48.00	G
ATOM	17110	O	ARG	G1185	69.780	104.048	77.976	1.00	48.00	G
ATOM	17111	N	GLU	G1186	71.064	102.827	79.338	1.00	50.67	G
ATOM	17112	CA	GLU	G1186	71.766	102.185	78.233	1.00	50.67	G
ATOM	17113	CB	GLU	G1186	73.130	102.832	78.019	1.00	89.37	G
ATOM	17114	CG	GLU	G1186	73.123	104.074	77.175	1.00	89.37	G
ATOM	17115	CD	GLU	G1186	74.504	104.701	77.079	1.00	89.37	G
ATOM	17116	OE1	GLU	G1186	75.486	103.962	76.838	1.00	89.37	G
ATOM	17117	OE2	GLU	G1186	74.606	105.937	77.239	1.00	89.37	G
ATOM	17118	C	GLU	G1186	71.974	100.699	78.472	1.00	50.67	G
ATOM	17119	O	GLU	G1186	72.868	100.298	79.214	1.00	50.67	G
ATOM	17120	N	VAL	G1187	71.147	99.872	77.852	1.00	38.99	G
ATOM	17121	CA	VAL	G1187	71.308	98.436	77.997	1.00	38.99	G
ATOM	17122	CB	VAL	G1187	70.029	97.708	77.659	1.00	15.33	G
ATOM	17123	CG1	VAL	G1187	70.200	96.235	77.928	1.00	15.33	G
ATOM	17124	CG2	VAL	G1187	68.883	98.309	78.448	1.00	15.33	G
ATOM	17125	C	VAL	G1187	72.388	98.009	77.010	1.00	38.99	G
ATOM	17126	O	VAL	G1187	72.384	98.415	75.850	1.00	38.99	G
ATOM	17127	N	PRO	G1188	73.334	97.190	77.463	1.00	71.13	G
ATOM	17128	CD	PRO	G1188	73.697	97.111	78.883	1.00	15.83	G
ATOM	17129	CA	PRO	G1188	74.436	96.705	76.633	1.00	71.13	G
ATOM	17130	CB	PRO	G1188	75.618	96.939	77.528	1.00	15.83	G
ATOM	17131	CG	PRO	G1188	75.057	96.451	78.826	1.00	15.83	G
ATOM	17132	C	PRO	G1188	74.363	95.242	76.181	1.00	71.13	G
ATOM	17133	O	PRO	G1188	74.762	94.337	76.918	1.00	71.13	G
ATOM	17134	N	VAL	G1189	73.870	95.027	74.963	1.00	23.32	G
ATOM	17135	CA	VAL	G1189	73.765	93.699	74.395	1.00	23.32	G
ATOM	17136	CB	VAL	G1189	72.527	93.548	73.555	1.00	81.27	G
ATOM	17137	CG1	VAL	G1189	72.410	92.112	73.107	1.00	81.27	G
ATOM	17138	CG2	VAL	G1189	71.324	93.970	74.349	1.00	81.27	G
ATOM	17139	C	VAL	G1189	74.966	93.487	73.501	1.00	23.32	G
ATOM	17140	O	VAL	G1189	75.502	94.				



ATOM	17183	N	ALA	G1197	84.506	85.631	64.515	1.00100.07	G
ATOM	17184	CA	ALA	G1197	83.942	84.544	63.710	1.00100.07	G
ATOM	17185	CB	ALA	G1197	82.576	84.085	64.287	1.00 5.07	G
ATOM	17186	C	ALA	G1197	83.779	85.196	62.333	1.00100.07	G
ATOM	17187	O	ALA	G1197	82.956	84.796	61.511	1.00100.07	G
ATOM	17188	N	ALA	G1198	84.620	86.205	62.114	1.00100.07	G
ATOM	17189	CA	ALA	G1198	84.643	87.043	60.918	1.00100.07	G
ATOM	17190	CB	ALA	G1198	85.793	88.041	61.028	1.00100.07	G
ATOM	17191	C	ALA	G1198	84.648	86.424	59.524	1.00100.07	G
ATOM	17192	O	ALA	G1198	84.342	87.129	58.557	1.00100.07	G
ATOM	17193	N	ALA	G1199	85.013	85.149	59.392	1.00100.05	G
ATOM	17194	CA	ALA	G1199	85.010	84.531	58.067	1.00100.05	G
ATOM	17195	CB	ALA	G1199	85.527	83.093	58.129	1.00 85.87	G
ATOM	17196	C	ALA	G1199	83.555	84.562	57.647	1.00100.05	G
ATOM	17197	O	ALA	G1199	82.846	83.557	57.685	1.00100.05	G
ATOM	17198	N	ALA	G1200	83.109	85.753	57.280	1.00 99.72	G
ATOM	17199	CA	ALA	G1200	81.739	85.959	56.876	1.00 99.72	G
ATOM	17200	CB	ALA	G1200	80.369	84.957	55.805	1.00100.07	G
ATOM	17201	C	ALA	G1200	81.784	85.820	58.055	1.00 99.72	G
ATOM	17202	O	ALA	G1200	79.763	86.503	58.117	1.00 99.72	G
ATOM	17203	N	ALA	G1201	81.127	84.970	59.014	1.00 94.81	G
ATOM	17204	CA	ALA	G1201	80.228	84.721	60.135	1.00 94.81	G
ATOM	17205	CB	ALA	G1201	80.185	83.207	60.376	1.00100.07	G
ATOM	17206	C	ALA	G1201	80.401	85.447	61.478	1.00 94.81	G
ATOM	17207	O	ALA	G1201	81.044	86.490	61.592	1.00 94.81	G
ATOM	17208	N	CYS	G1202	79.752	84.840	62.467	1.00 43.61	G
ATOM	17209	CA	CYS	G1202	79.690	85.173	63.896	1.00 43.61	G
ATOM	17210	C	CYS	G1202	78.257	85.077	64.386	1.00 43.61	G
ATOM	17211	O	CYS	G1202	77.336	85.679	63.811	1.00 43.61	G
ATOM	17212	CB	CYS	G1202	80.265	86.549	64.310	1.00 98.43	G
ATOM	17213	SG	CYS	G1202	80.095	86.631	66.147	1.00 98.43	G
ATOM	17214	N	ALA	G1203	78.100	84.307	65.464	1.00 74.39	G
ATOM	17215	CA	ALA	G1203	76.806	84.073	66.074	1.00 74.39	G
ATOM	17216	CB	ALA	G1203	76.015	83.139	65.207	1.00100.07	G
ATOM	17217	C	ALA	G1203	76.842	83.533	67.500	1.00 74.39	G
ATOM	17218	O	ALA	G1203	77.865	83.626	68.192	1.00 74.39	G
ATOM	17219	N	ALA	G1204	75.702	82.960	67.904	1.00 74.28	G
ATOM	17220	CA	ALA	G1204	75.476	82.407	69.242	1.00 74.28	G
ATOM	17221	CB	ALA	G1204	76.571	81.440	69.612	1.00100.07	G
ATOM	17222	C	ALA	G1204	75.446	83.581	70.213	1.00 74.28	G
ATOM	17223	O	ALA	G1204	75.119	83.452	71.386	1.00 74.28	G
ATOM	17224	N	CYS	G1205	75.806	84.735	69.680	1.00 32.55	G
ATOM	17225	CA	CYS	G1205	75.829	85.996	70.391	1.00 32.55	G
ATOM	17226	CB	CYS	G1205	77.289	86.494	70.583	1.00	



ATOM	17267	CA	MET	G1212	61.694	80.455	67.709	1.00	44.94	G
ATOM	17268	CB	MET	G1212	62.605	79.207	67.571	1.00	49.59	G
ATOM	17269	CG	MET	G1212	62.768	78.667	66.107	1.00	49.59	G
ATOM	17270	SD	MET	G1212	63.348	76.920	65.840	1.00	49.59	G
ATOM	17271	CE	MET	G1212	65.118	77.050	65.956	1.00	49.59	G
ATOM	17272	C	MET	G1212	61.868	81.154	69.071	1.00	44.94	G
ATOM	17273	O	MET	G1212	61.413	82.286	69.270	1.00	44.94	G
ATOM	17274	N	ALA	G1213	62.518	80.501	70.018	1.00	18.63	G
ATOM	17275	CA	ALA	G1213	62.704	81.123	71.319	1.00	18.63	G
ATOM	17276	CB	ALA	G1213	62.159	80.215	72.419	1.00	100.07	G
ATOM	17277	C	ALA	G1213	64.175	81.410	71.561	1.00	18.63	G
ATOM	17278	O	ALA	G1213	64.952	80.516	71.905	1.00	18.63	G
ATOM	17279	N	ARG	G1214	64.532	82.676	71.387	1.00	100.07	G
ATOM	17280	CA	ARG	G1214	65.886	83.174	71.571	1.00	100.07	G
ATOM	17281	CB	ARG	G1214	65.874	84.245	72.689	1.00	96.83	G
ATOM	17282	CG	ARG	G1214	64.918	83.980	73.836	1.00	96.83	G
ATOM	17283	CD	ARG	G1214	65.669	83.616	75.107	1.00	96.83	G
ATOM	17284	NE	ARG	G1214	64.794	83.045	76.135	1.00	96.83	G
ATOM	17285	CZ	ARG	G1214	65.209	82.606	77.326	1.00	96.83	G
ATOM	17286	NH1	ARG	G1214	66.493	82.670	77.657	1.00	96.83	G
ATOM	17287	NH2	ARG	G1214	64.340	82.095	78.193	1.00	96.83	G
ATOM	17288	C	ARG	G1214	67.050	82.177	71.779	1.00	100.07	G
ATOM	17289	O	ARG	G1214	67.524	81.989	72.895	1.00	100.07	G
ATOM	17290	N	PRO	G1215	67.487	81.485	70.711	1.00	95.14	G
ATOM	17291	CD	PRO	G1215	66.496	80.743	69.922	1.00	39.96	G
ATOM	17292	CA	PRO	G1215	68.597	80.571	70.969	1.00	95.14	G
ATOM	17293	CB	PRO	G1215	67.873	79.368	71.490	1.00	39.96	G
ATOM	17294	CG	PRO	G1215	66.709	79.289	70.452	1.00	39.96	G
ATOM	17295	C	PRO	G1215	69.412	80.224	69.702	1.00	95.14	G
ATOM	17296	O	PRO	G1215	70.292	79.373	69.759	1.00	95.14	G
ATOM	17297	N	VAL	G1216	69.106	80.867	68.571	1.00	37.25	G
ATOM	17298	CA	VAL	G1216	69.788	80.637	67.280	1.00	37.25	G
ATOM	17299	CB	VAL	G1216	70.776	81.754	66.959	1.00	17.32	G
ATOM	17300	CG1	VAL	G1216	71.369	81.542	65.578	1.00	17.32	G
ATOM	17301	CG2	VAL	G1216	70.090	83.084	67.070	1.00	17.32	G
ATOM	17302	C	VAL	G1216	70.570	79.336	67.125	1.00	37.25	G
ATOM	17303	O	VAL	G1216	71.705	79.236	67.583	1.00	37.25	G
ATOM	17304	N	SER	G1217	69.979	78.352	66.457	1.00	18.54	G
ATOM	17305	CA	SER	G1217	70.653	77.080	66.250	1.00	18.54	G
ATOM	17306	CB	SER	G1217	69.674	76.083	65.644	1.00	69.81	G
ATOM	17307	OG	SER	G1217	68.445	76.108	66.354	1.00	69.81	G
ATOM	17308	C	SER	G1217	71.772	77.398	65.282	1.00	18.54	G
ATOM	17309	O	SER	G1217	71.649	78.341	64.515	1.00	18.54	G
ATOM	17310	N	ILE	G1218	72.862	76.636	65.314	1.00	37.65	G
ATOM	17311	CA	ILE	G1218	73.990	76.900	64.416	1.00	37.65	G
ATOM	17312	CB	ILE	G1218	75.201	75.985	64.718	1.00	63.18	G
ATOM	17313	CG2	ILE	G1218	76.057	75.829	63.478	1.00	63.18	G
ATOM	17314	CG1	ILE	G1218	76.055	76.583	65.838	1.00	63.18	G
ATOM	17315	CD	ILE	G1218	75.343	76.684	67.168	1.00	63.18	G
ATOM	17316	C	ILE	G1218	73.625	76.725	62.956	1.00	37.65	G
ATOM	17317	O	ILE	G1218	72.914	75.795	62.609	1.00	37.65	G
ATOM	17318	N	GLY	G1219	74.131	77.621	62.111	1.00	63.41	G
ATOM	17319	CA	GLY	G1219	73.859	77.568	60.684	1.00	63.41	G
ATOM	17320	C	GLY	G1219	72.536	78.196	60.266	1.00	63.41	G
ATOM	17321	O	GLY	G1219	71.599	77.480	59.911	1.00	63.41	G
ATOM	17322	N	GLU	G1220	72.443	79.525	60.303	1.00	35.37	G
ATOM	17323	CA	GLU	G1220	71.211	80.209	59.910	1.00	35.37	G
ATOM	17324	CB	GLU	G1220	70.725	81.141	61.018	1.00	58.78	G
ATOM	17325	CG	GLU	G1220	69.742	80.465	61.973	1.00	58.78	G
ATOM	17326	CD	GLU	G1220	68.498	79.912	61.272	1.00	58.78	G
ATOM	17327	OE1	GLU	G1220	67.714	80.705	60.707	1.00	58.78	G
ATOM	17328	OE2	GLU	G1220	68.300	78.678	61.287	1.00	58.78	G
ATOM	17329	C	GLU	G1220	71.314	80.972	58.592	1.00	35.37	G
ATOM	17330	O	GLU	G1220	70.566	80.678	57.659	1.00	35.37	G
ATOM	17331	N	ALA	G1221	72.201	81.959	58.516	1.00	26.20	G
ATOM	17332	CA	ALA	G1221	72.396	82.709	57.275	1.00	26.20	G
ATOM	17333	CB	ALA	G1221	71.853	81.915	56.084	1.00	14.55	G
ATOM	17334	C	ALA	G1221	71.872	84.142	57.212	1.00	26.20	G
ATOM	17335	O	ALA	G1221	71.300	84.665	58.172	1.00	26.20	G
ATOM	17336	N	VAL	G1222	72.096	84.766	56.055	1.00	39.01	G
ATOM	17337	CA	VAL	G1222	71.698	86.142	55.805	1.00	39.01	G
ATOM	17338	CB	VAL	G1222	72.755	86.907	55.047	1.00	34.69	G
ATOM	17339	CG1	VAL	G1222	72.341	88.364	54.953	1.00	34.69	G
ATOM	17340	CG2	VAL	G1222	74.092	86.738	55.724	1.00	34.69	G
ATOM	17341	C	VAL	G1222	70.439	86.264	54.995	1.00	39.01	G
ATOM	17342	O	VAL	G1222	69.733	87.258	55.112	1.00	39.01	G
ATOM	17343	N	GLY	G1223	70.178	85.295	54.125	1.00	54.48	G
ATOM	17344	CA	GLY	G1223	68.943	85.363	53.379	1.00	54.48	G
ATOM	17345	C	GLY	G1223	67.868	85.614	54.434	1.00	54.48	G
ATOM	17346	O	GLY	G1223	66.905	86.344	54.184	1.00	54.48	G
ATOM	17347	N	VAL	G1224	68.069	85.022	55.623	1.00	15.36	G
ATOM	17348	CA	VAL	G1224	67.169	85.133	56.772	1.00	15.36	G
ATOM	17349	CB	VAL	G1224	67.580	84.247	57.928	1.00	38.19	G
ATOM	17350	CG1	VAL	G1224	66.351	83.797	58.693	1.00	38.19	G



ATOM	17351	CG2	VAL	G1224	68.410	83.096	57.431	1.00	38.19	G
ATOM	17352	C	VAL	G1224	67.262	86.516	57.318	1.00	15.36	G
ATOM	17353	O	VAL	G1224	66.484	86.890	58.180	1.00	15.36	G
ATOM	17354	N	VAL	G1225	68.247	87.264	56.840	1.00	34.12	G
ATOM	17355	CA	VAL	G1225	68.457	88.632	57.278	1.00	34.12	G
ATOM	17356	CB	VAL	G1225	69.909	88.853	57.643	1.00100.07		G
ATOM	17357	CG1	VAL	G1225	70.062	90.207	58.312	1.00100.07		G
ATOM	17358	CG2	VAL	G1225	70.385	87.720	58.544	1.00100.07		G
ATOM	17359	C	VAL	G1225	68.073	89.602	56.170	1.00	34.12	G
ATOM	17360	O	VAL	G1225	67.147	90.392	56.319	1.00	34.12	G
ATOM	17361	N	ALA	G1226	68.788	89.533	55.056	1.00	21.86	G
ATOM	17362	CA	ALA	G1226	68.513	90.393	53.898	1.00	21.86	G
ATOM	17363	CB	ALA	G1226	69.207	89.839	52.647	1.00	51.53	G
ATOM	17364	C	ALA	G1226	67.014	90.438	53.673	1.00	21.86	G
ATOM	17365	O	ALA	G1226	66.357	91.439	53.983	1.00	21.86	G
ATOM	17366	N	ALA	G1227	66.492	89.337	53.128	1.00	6.73	G
ATOM	17367	CA	ALA	G1227	65.069	89.200	52.879	1.00	6.73	G
ATOM	17368	CB	ALA	G1227	64.699	87.706	52.757	1.00	15.36	G
ATOM	17369	C	ALA	G1227	64.278	89.870	54.018	1.00	6.73	G
ATOM	17370	O	ALA	G1227	63.359	90.644	53.741	1.00	6.73	G
ATOM	17371	N	GLU	G1228	64.646	89.602	55.284	1.00	7.96	G
ATOM	17372	CA	GLU	G1228	63.941	90.199	56.425	1.00	7.96	G
ATOM	17373	CB	GLU	G1228	64.671	89.933	57.752	1.00	76.95	G
ATOM	17374	CG	GLU	G1228	64.113	88.725	58.509	1.00	76.95	G
ATOM	17375	CD	GLU	G1228	64.152	88.859	60.043	1.00	76.95	G
ATOM	17376	OE1	GLU	G1228	63.736	89.910	60.578	1.00	76.95	G
ATOM	17377	OE2	GLU	G1228	64.581	87.900	60.729	1.00	76.95	G
ATOM	17378	C	GLU	G1228	63.805	91.694	56.192	1.00	7.96	G
ATOM	17379	O	GLU	G1228	62.724	92.273	56.268	1.00	7.96	G
ATOM	17380	N	SER	G1229	64.912	92.314	55.854	1.00	13.86	G
ATOM	17381	CA	SER	G1229	64.916	93.732	55.605	1.00	13.86	G
ATOM	17382	CB	SER	G1229	66.375	94.206	55.562	1.00	32.16	G
ATOM	17383	OG	SER	G1229	66.474	95.612	55.640	1.00	32.16	G
ATOM	17384	C	SER	G1229	64.181	94.090	54.299	1.00	13.86	G
ATOM	17385	O	SER	G1229	64.258	95.223	53.846	1.00	13.86	G
ATOM	17386	N	ILE	G1230	63.470	93.147	53.685	1.00	35.41	G
ATOM	17387	CA	ILE	G1230	62.774	93.469	52.428	1.00	35.41	G
ATOM	17388	CB	ILE	G1230	63.600	93.054	51.185	1.00100.07		G
ATOM	17389	CG2	ILE	G1230	62.867	93.448	49.900	1.00100.07		G
ATOM	17390	CG1	ILE	G1230	64.957	93.758	51.190	1.00100.07		G
ATOM	17391	CD	ILE	G1230	65.988	93.158	52.121	1.00100.07		G
ATOM	17392	C	ILE	G1230	61.366	92.900	52.243	1.00	35.41	G
ATOM	17393	O	ILE	G1230	60.671	93.252	51.288	1.00	35.41	G
ATOM	17394	N	GLY	G1231	60.941	92.013	53.133	1.00	97.53	G
ATOM	17395	CA	GLY	G1231	59.596	91.481	53.013	1.00	97.53	G
ATOM	17396	C	GLY	G1231	58.707	92.624	53.440	1.00	97.53	G
ATOM	17397	O	GLY	G1231	57.552	92.439	53.812	1.00	97.53	G
ATOM	17398	N	GLU	G1232	59.286	93.821	53.377	1.00	99.15	G
ATOM	17399	CA	GLU	G1232	58.629	95.052	53.770	1.00	99.15	G
ATOM	17400	CB	GLU	G1232	59.482	95.765	54.815	1.00100.07		G
ATOM	17401	CG	GLU	G1232	60.367	94.816	55.604	1.00100.07		G
ATOM	17402	CD	GLU	G1232	59.580	93.732	56.335	1.00100.07		G
ATOM	17403	OE1	GLU	G1232	58.825	94.071	57.272	1.00100.07		G
ATOM	17404	OE2	GLU	G1232	59.716	92.540	55.977	1.00100.07		G
ATOM	17405	C	GLU	G1232	58.371	95.983	52.589	1.00	99.15	G
ATOM	17406	O	GLU	G1232	57.226	96.159	52.192	1.00	99.15	G
ATOM	17407	N	PRO	G1233	59.431	96.572	51.996	1.00	26.64	G
ATOM	17408	CD	PRO	G1233	60.812	96.082	52.065	1.00	66.81	G
ATOM	17409	CA	PRO	G1233	59.291	97.494	50.853	1.00	26.64	G
ATOM	17410	CB	PRO	G1233	60.517	97.184	49.985	1.00	66.81	G
ATOM	17411	CG	PRO	G1233	61.128	95.942	50.615	1.00	66.81	G
ATOM	17412	C	PRO	G1233	57.980	97.437	50.061	1.00	26.64	G
ATOM	17413	O	PRO	G1233	57.178	98.380	50.128	1.00	26.64	G
ATOM	17414	N	GLY	G1234	57.760	96.345	49.323	1.00	55.33	G
ATOM	17415	CA	GLY	G1234	56.533	96.211	48.552	1.00	55.33	G
ATOM	17416	C	GLY	G1234	55.376	96.838	49.308	1.00	55.33	G
ATOM	17417	O	GLY	G1234	54.522	97.516	48.734	1.00	55.33	G
ATOM	17418	N	THR	G1235	55.383	96.616	50.618	1.00100.07		G
ATOM	17419	CA	THR	G1235	54.375	97.136	51.537	1.00100.07		G
ATOM	17420	CB	THR	G1235	54.246	96.218	52.789	1.00100.06		G
ATOM	17421	OG1	THR	G1235	53.285	95.185	52.525	1.00100.06		G
ATOM	17422	CG2	THR	G1235	53.837	97.023	54.035	1.00100.06		G
ATOM	17423	C	THR	G1235	54.677	98.559	52.013	1.00100.07		G
ATOM	17424	O	THR	G1235	53.766	99.289	52.418	1.00100.07		G
ATOM	17425	N	GLN	G1236	55.945	98.955	51.975	1.00	41.97	G
ATOM	17426	CA	GLN	G1236	56.308	100.293	52.429	1.00	41.97	G
ATOM	17427	CB	GLN	G1236	56.933	100.234	53.839	1.00100.07		G
ATOM	17428	CG	GLN	G1236	58.011	99.165	54.049	1.00100.07		G
ATOM	17429	CD	GLN	G1236	58.036	98.615	55.484	1.00100.07		G
ATOM	17430	OE1	GLN	G1236	57.008	98.169	56.007	1.00100.07		G
ATOM	17431	NE2	GLN	G1236	59.214	98.633	56.113	1.00100.07		G
ATOM	17432	C	GLN	G1236	57.208	101.058	51.480	1.00	41.97	G
ATOM	17433	O	GLN	G1236	57.212	100.811	50.278	1.00	41.97	G
ATOM	17434	N	LEU	G1237	57.964	101.997	52.031	1.00	17.85	G



ATOM	17435	CA	LEU	G1237	58.849	102.822	51.226	1.00	17.85	G
ATOM	17436	CB	LEU	G1237	59.867	101.930	50.529	1.00	99.96	G
ATOM	17437	CG	LEU	G1237	60.299	100.787	51.460	1.00	99.96	G
ATOM	17438	CD1	LEU	G1237	61.594	100.212	50.958	1.00	99.96	G
ATOM	17439	CD2	LEU	G1237	60.472	101.275	52.893	1.00	99.96	G
ATOM	17440	C	LEU	G1237	57.934	103.546	50.244	1.00	17.85	G
ATOM	17441	O	LEU	G1237	56.821	103.916	50.622	1.00	17.85	G
ATOM	17442	N	THR	G1238	58.369	103.761	49.006	1.00	64.90	G
ATOM	17443	CA	THR	G1238	57.507	104.442	48.039	1.00	64.90	G
ATOM	17444	CB	THR	G1238	57.055	105.837	48.546	1.00	81.69	G
ATOM	17445	OG1	THR	G1238	56.173	106.437	47.589	1.00	81.69	G
ATOM	17446	CG2	THR	G1238	58.250	106.745	48.735	1.00	81.69	G
ATOM	17447	C	THR	G1238	58.154	104.648	46.687	1.00	64.90	G
ATOM	17448	O	THR	G1238	57.511	105.143	45.764	1.00	64.90	G
ATOM	17449	N	MET	G1239	59.423	104.271	46.572	1.00	46.39	G
ATOM	17450	CA	MET	G1239	60.174	104.442	45.331	1.00	46.39	G
ATOM	17451	CB	MET	G1239	60.000	103.224	44.431	1.00	94.23	G
ATOM	17452	CG	MET	G1239	61.314	102.590	44.056	1.00	94.23	G
ATOM	17453	SD	MET	G1239	62.513	103.849	43.594	1.00	94.23	G
ATOM	17454	CE	MET	G1239	64.055	102.871	43.654	1.00	94.23	G
ATOM	17455	C	MET	G1239	59.759	105.712	44.581	1.00	46.39	G
ATOM	17456	O	MET	G1239	59.935	105.819	43.363	1.00	46.39	G
ATOM	17457	N	ALA	G1240	59.226	106.670	45.340	1.00100.07	G	
ATOM	17458	CA	ALA	G1240	58.749	107.950	44.827	1.00100.07	G	
ATOM	17459	CB	ALA	G1240	57.806	108.591	45.839	1.00	51.43	G
ATOM	17460	C	ALA	G1240	59.900	108.896	44.516	1.00100.07	G	
ATOM	17461	O	ALA	G1240	61.044	108.634	44.891	1.00100.07	G	
ATOM	17462	N	ALA	G1241	59.581	110.003	43.847	1.00100.07	G	
ATOM	17463	CA	ALA	G1241	60.572	111.004	43.444	1.00100.07	G	
ATOM	17464	CB	ALA	G1241	60.096	111.710	42.164	1.00	84.37	G
ATOM	17465	C	ALA	G1241	60.905	112.044	44.518	1.00100.07	G	
ATOM	17466	O	ALA	G1241	61.393	111.708	45.600	1.00100.07	G	
ATOM	17467	N	ALA	G1242	60.656	113.310	44.193	1.00100.07	G	
ATOM	17468	CA	ALA	G1242	60.913	114.422	45.106	1.00100.07	G	
ATOM	17469	CB	ALA	G1242	62.200	115.149	44.698	1.00100.07	G	
ATOM	17470	C	ALA	G1242	59.732	115.403	45.120	1.00100.07	G	
ATOM	17471	O	ALA	G1242	59.062	115.600	44.103	1.00100.07	G	
ATOM	17472	N	ALA	G1243	59.483	116.010	46.278	0.00	58.09	G
ATOM	17473	CA	ALA	G1243	58.386	116.964	46.421	0.00	58.09	G
ATOM	17474	CB	ALA	G1243	57.051	116.249	46.249	0.00	58.09	G
ATOM	17475	C	ALA	G1243	58.424	117.676	47.771	0.00	58.09	G
ATOM	17476	O	ALA	G1243	58.994	117.169	48.737	0.00	58.09	G







ATOM	17603	O	GLU	G1262	72.924	106.178	51.041	1.00	24.23	G
ATOM	17604	N	LEU	G1263	71.051	105.199	51.810	1.00	51.86	G
ATOM	17605	CA	LEU	G1263	71.656	104.762	53.043	1.00	51.86	G
ATOM	17606	CB	LEU	G1263	70.586	104.248	53.993	1.00	43.95	G
ATOM	17607	CG	LEU	G1263	70.120	105.160	55.121	1.00	43.95	G
ATOM	17608	CD1	LEU	G1263	70.081	106.597	54.653	1.00	43.95	G
ATOM	17609	CD2	LEU	G1263	68.751	104.700	55.588	1.00	43.95	G
ATOM	17610	C	LEU	G1263	72.581	103.627	52.647	1.00	51.86	G
ATOM	17611	O	LEU	G1263	73.733	103.853	52.301	1.00	51.86	G
ATOM	17612	N	PHE	G1264	72.051	102.412	52.669	1.00	30.94	G
ATOM	17613	CA	PHE	G1264	72.799	101.212	52.328	1.00	30.94	G
ATOM	17614	CB	PHE	G1264	71.857	100.202	51.682	1.00	22.91	G
ATOM	17615	CG	PHE	G1264	71.003	99.453	52.673	1.00	22.91	G
ATOM	17616	CD1	PHE	G1264	69.687	99.104	52.355	1.00	22.91	G
ATOM	17617	CD2	PHE	G1264	71.533	99.043	53.907	1.00	22.91	G
ATOM	17618	CE1	PHE	G1264	68.911	98.359	53.238	1.00	22.91	G
ATOM	17619	CE2	PHE	G1264	70.771	98.295	54.800	1.00	22.91	G
ATOM	17620	CZ	PHE	G1264	69.457	97.951	54.464	1.00	22.91	G
ATOM	17621	C	PHE	G1264	74.023	101.427	51.447	1.00	30.94	G
ATOM	17622	O	PHE	G1264	75.155	101.350	51.929	1.00	30.94	G
ATOM	17623	N	GLU	G1265	73.806	101.701	50.161	1.00	56.36	G
ATOM	17624	CA	GLU	G1265	74.914	101.911	49.227	1.00	56.36	G
ATOM	17625	CB	GLU	G1265	74.377	102.148	47.823	1.00	100.07	G
ATOM	17626	CG	GLU	G1265	74.336	100.898	46.984	1.00	100.07	G
ATOM	17627	CD	GLU	G1265	73.406	101.032	45.798	1.00	100.07	G
ATOM	17628	OE1	GLU	G1265	73.260	102.161	45.280	1.00	100.07	G
ATOM	17629	OE2	GLU	G1265	72.827	100.009	45.377	1.00	100.07	G
ATOM	17630	C	GLU	G1265	75.846	103.044	49.631	1.00	56.36	G
ATOM	17631	O	GLU	G1265	76.828	103.322	48.954	1.00	56.36	G
ATOM	17632	N	ALA	G1266	75.524	103.696	50.739	1.00	76.49	G
ATOM	17633	CA	ALA	G1266	76.345	104.768	51.275	1.00	76.49	G
ATOM	17634	CB	ALA	G1266	77.629	104.191	51.827	1.00	8.17	G
ATOM	17635	C	ALA	G1266	76.677	105.852	50.285	1.00	76.49	G
ATOM	17636	O	ALA	G1266	77.758	105.862	49.712	1.00	76.49	G
ATOM	17637	N	ARG	G1267	75.758	106.776	50.088	1.00	83.66	G
ATOM	17638	CA	ARG	G1267	76.008	107.865	49.166	1.00	83.66	G
ATOM	17639	CB	ARG	G1267	75.024	107.815	47.998	1.00	100.07	G
ATOM	17640	CG	ARG	G1267	75.647	107.294	46.728	1.00	100.07	G
ATOM	17641	CD	ARG	G1267	76.892	108.105	46.433	1.00	100.07	G
ATOM	17642	NE	ARG	G1267	77.691	107.543	45.356	1.00	100.07	G
ATOM	17643	CZ	ARG	G1267	78.834	108.072	44.943	1.00	100.07	G
ATOM	17644	N								



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ATOM	17687	C	LYS	G1272	74.538	117.412	54.866	1.00	68.73	G
ATOM	17688	O	LYS	G1272	75.182	116.878	55.766	1.00	68.73	G
ATOM	17689	N	ALA	G1273	73.743	118.446	55.084	1.00	53.93	G
ATOM	17690	CA	ALA	G1273	73.567	118.988	56.421	1.00	53.93	G
ATOM	17691	CB	ALA	G1273	72.907	117.937	57.313	1.00	55.89	G
ATOM	17692	C	ALA	G1273	74.839	119.498	57.080	1.00	53.93	G
ATOM	17693	O	ALA	G1273	74.796	120.023	58.191	1.00	53.93	G
ATOM	17694	N	VAL	G1274	75.971	119.351	56.406	1.00	48.02	G
ATOM	17695	CA	VAL	G1274	77.231	119.811	56.971	1.00	48.02	G
ATOM	17696	CB	VAL	G1274	77.241	121.332	57.210	1.00	44.30	G
ATOM	17697	CG1	VAL	G1274	78.657	121.790	57.466	1.00	44.30	G
ATOM	17698	CG2	VAL	G1274	76.642	122.067	56.034	1.00	44.30	G
ATOM	17699	C	VAL	G1274	77.483	119.161	58.325	1.00	48.02	G
ATOM	17700	O	VAL	G1274	76.626	119.167	59.201	1.00	48.02	G
ATOM	17701	N	ILE	G1275	78.668	118.598	58.491	1.00	41.38	G
ATOM	17702	CA	ILE	G1275	79.037	117.968	59.740	1.00	41.38	G
ATOM	17703	CB	ILE	G1275	79.524	116.539	59.502	1.00	81.15	G
ATOM	17704	CG2	ILE	G1275	79.986	115.940	60.799	1.00	81.15	G
ATOM	17705	CG1	ILE	G1275	78.410	115.696	58.889	1.00	81.15	G
ATOM	17706	CD	ILE	G1275	77.225	115.484	59.807	1.00	81.15	G
ATOM	17707	C	ILE	G1275	80.212	118.799	60.209	1.00	41.38	G
ATOM	17708	O	ILE	G1275	81.298	118.664	59.655	1.00	41.38	G
ATOM	17709	N	SER	G1276	80.011	119.677	61.187	1.00	34.20	G
ATOM	17710	CA	SER	G1276	81.112	120.507	61.688	1.00	34.20	G
ATOM	17711	CB	SER	G1276	80.617	121.471	62.774	1.00	55.01	G
ATOM	17712	OG	SER	G1276	81.651	121.812	63.696	1.00	55.01	G
ATOM	17713	C	SER	G1276	82.234	119.660	62.262	1.00	34.20	G
ATOM	17714	O	SER	G1276	82.028	118.913	63.214	1.00	34.20	G
ATOM	17715	N	GLU	G1277	83.420	119.770	61.679	1.00	75.63	G
ATOM	17716	CA	GLU	G1277	84.563	119.020	62.171	1.00	75.63	G
ATOM	17717	CB	GLU	G1277	85.671	119.009	61.112	1.00	100.07	G
ATOM	17718	CG	GLU	G1277	86.050	120.391	60.585	1.00	100.07	G
ATOM	17719	CD	GLU	G1277	86.366	120.401	59.092	1.00	100.07	G
ATOM	17720	OE1	GLU	G1277	87.192	119.580	58.640	1.00	100.07	G
ATOM	17721	OE2	GLU	G1277	85.787	121.240	58.368	1.00	100.07	G
ATOM	17722	C	GLU	G1277	85.004	119.756	63.428	1.00	75.63	G
ATOM	17723	O	GLU	G1277	84.208	120.490	64.010	1.00	75.63	G
ATOM	17724	N	ILE	G1278	86.248	119.555	63.852	1.00	80.74	G
ATOM	17725	CA	ILE	G1278	86.799	120.233	65.029	1.00	80.74	G
ATOM	17726	CB	ILE	G1278	87.774	121.374	64.593	1.00	100.07	G
ATOM	17727	CG2	ILE	G1278	87.691	122.567	65.531	1.00	100.07	G
ATOM	17728	CG1	ILE	G1278	89.207	120.840	64.563	1.00	100.07	G
ATOM	17729	CD	ILE	G1278	89.737	120.376	65.917	1.00	100.07	G
ATOM	17730	C	ILE	G1278	85.789	120.801	66.027	1.00	80.74	G
ATOM	17731	O	ILE	G1278	85.222	121.879	65.821	1.00	80.74	G
ATOM	17732	N	ASP	G1279	85.566	120.063	67.111	1.00	50.25	G
ATOM	17733	CA	ASP	G1279	84.661	120.500	68.161	1.00	50.25	G
ATOM	17734	CB	ASP	G1279	84.793	119.589	69.393	1.00	100.07	G
ATOM	17735	CG	ASP	G1279	86.244	119.201	69.706	1.00	100.07	G
ATOM	17736	OD1	ASP	G1279	86.902	118.563	68.857	1.00	100.07	G
ATOM	17737	OD2	ASP	G1279	86.727	119.521	70.814	1.00	100.07	G
ATOM	17738	C	ASP	G1279	85.070	121.921	68.504	1.00	50.25	G
ATOM	17739	O	ASP	G1279	86.254	122.248	68.481	1.00	50.25	G
ATOM	17740	N	GLY	G1280	84.095	122.768	68.809	1.00	29.41	G
ATOM	17741	CA	GLY	G1280	84.411	124.150	69.124	1.00	29.41	G
ATOM	17742	C	GLY	G1280	83.245	125.071	69.430	1.00	29.41	G
ATOM	17743	O	GLY	G1280	82.083	124.664	69.495	1.00	29.41	G
ATOM	17744	N	VAL	G1281	83.565	126.348	69.558	1.00	28.20	G
ATOM	17745	CA	VAL	G1281	82.578	127.347	69.940	1.00	28.20	G
ATOM	17746	CB	VAL	G1281	83.286	128.529	70.655	1.00	100.07	G
ATOM	17747	CG1	VAL	G1281	82.279	129.348	71.464	1.00	100.07	G
ATOM	17748	CG2	VAL	G1281	84.398	127.998	71.559	1.00	100.07	G
ATOM	17749	C	VAL	G1281	81.600	127.946	68.937	1.00	28.20	G
ATOM	17750	O	VAL	G1281	81.725	127.792	67.721	1.00	28.20	G
ATOM	17751	N	VAL	G1282	80.623	128.637	69.519	1.00	99.55	G
ATOM	17752	CA	VAL	G1282	79.558	129.357	68.837	1.00	99.55	G
ATOM	17753	CB	VAL	G1282	78.833	130.306	69.823	1.00	100.07	G
ATOM	17754	CG1	VAL	G1282	77.705	131.022	69.126	1.00	100.07	G
ATOM	17755	CG2	VAL	G1282	78.352	129.552	71.042	1.00	100.07	G
ATOM	17756	C	VAL	G1282	80.169	130.251	67.773	1.00	99.55	G
ATOM	17757	O	VAL	G1282	81.364	130.548	67.821	1.00	99.55	G
ATOM	17758	N	ARG	G1283	79.336	130.697	66.834	1.00	95.80	G
ATOM	17759	CA	ARG	G1283	79.772	131.602	65.776	1.00	95.80	G
ATOM	17760	CB	ARG	G1283	81.100	131.146	65.181	1.00	100.07	G
ATOM	17761	CG	ARG	G1283	81.705	132.158	64.223	1.00	100.07	G
ATOM	17762	CD	ARG	G1283	82.261	133.375	64.952	1.00	100.07	G
ATOM	17763	NE	ARG	G1283	82.248	134.560	64.099	1.00	100.07	G
ATOM	17764	CZ	ARG	G1283	82.765	135.735	64.437	1.00	100.07	G
ATOM	17765	NH1	ARG	G1283	83.350	135.887	65.615	1.00	100.07	G
ATOM	17766	NH2	ARG	G1283	82.674	136.766	63.607	1.00	100.07	G
ATOM	17767	C	ARG	G1283	78.761	131.737	64.650	1.00	95.80	G
ATOM	17768	O	ARG	G1283	78.414	130.758	64.001	1.00	95.80	G
ATOM	17769	N	ILE	G1284	78.294	132.956	64.416	1.00	75.14	G
ATOM	17770	CA	ILE	G1284	77.341	133.201	63.350	1.00	75.14	G



ATOM	17771	CB	ILE	G1284	75.881	133.046	63.820	1.00100.07	G
ATOM	17772	CG2	ILE	G1284	74.950	133.883	62.950	1.00100.07	G
ATOM	17773	CG1	ILE	G1284	75.469	131.578	63.743	1.00100.07	G
ATOM	17774	CD	ILE	G1284	75.536	130.996	62.347	1.00100.07	G
ATOM	17775	C	ILE	G1284	77.502	134.586	62.779	1.00 75.14	G
ATOM	17776	O	ILE	G1284	77.191	135.579	63.431	1.00 75.14	G
ATOM	17777	N	GLU	G1285	78.001	134.644	61.553	1.00 40.73	G
ATOM	17778	CA	GLU	G1285	78.181	135.906	60.854	1.00 40.73	G
ATOM	17779	CB	GLU	G1285	79.617	136.012	60.315	1.00100.07	G
ATOM	17780	CG	GLU	G1285	80.662	136.183	61.431	1.00100.07	G
ATOM	17781	CD	GLU	G1285	82.099	135.879	60.996	1.00100.07	G
ATOM	17782	OE1	GLU	G1285	82.378	134.724	60.594	1.00100.07	G
ATOM	17783	OE2	GLU	G1285	82.956	136.792	61.068	1.00100.07	G
ATOM	17784	C	GLU	G1285	77.142	135.912	59.732	1.00 40.73	G
ATOM	17785	O	GLU	G1285	77.423	135.565	58.582	1.00 40.73	G
ATOM	17786	N	GLU	G1286	75.918	136.268	60.111	1.00 72.48	G
ATOM	17787	CA	GLU	G1286	74.801	136.337	59.183	1.00 72.48	G
ATOM	17788	CB	GLU	G1286	73.624	137.068	59.855	1.00100.07	G
ATOM	17789	CG	GLU	G1286	74.021	138.284	60.723	1.00100.07	G
ATOM	17790	CD	GLU	G1286	72.921	138.731	61.706	1.00100.07	G
ATOM	17791	OE1	GLU	G1286	72.594	137.961	62.643	1.00100.07	G
ATOM	17792	OE2	GLU	G1286	72.389	139.856	61.546	1.00100.07	G
ATOM	17793	C	GLU	G1286	75.221	137.033	57.887	1.00 72.48	G
ATOM	17794	O	GLU	G1286	75.229	138.260	57.801	1.00 72.48	G
ATOM	17795	N	GLY	G1287	75.572	136.234	56.882	1.00100.07	G
ATOM	17796	CA	GLY	G1287	76.005	136.782	55.607	1.00100.07	G
ATOM	17797	C	GLY	G1287	74.900	137.130	54.623	1.00100.07	G
ATOM	17798	O	GLY	G1287	73.990	136.331	54.371	1.00100.07	G
ATOM	17799	N	GLU	G1288	74.988	138.339	54.070	1.00 62.85	G
ATOM	17800	CA	GLU	G1288	74.024	138.833	53.091	1.00 62.85	G
ATOM	17801	CB	GLU	G1288	74.597	140.071	52.387	1.00100.07	G
ATOM	17802	CG	GLU	G1288	73.572	140.978	51.716	1.00100.07	G
ATOM	17803	CD	GLU	G1288	74.208	142.196	51.044	1.00100.07	G
ATOM	17804	OE1	GLU	G1288	74.930	142.957	51.730	1.00100.07	G
ATOM	17805	OE2	GLU	G1288	73.981	142.398	49.828	1.00100.07	G
ATOM	17806	C	GLU	G1288	73.854	137.689	52.104	1.00 62.85	G
ATOM	17807	O	GLU	G1288	72.745	137.364	51.680	1.00 62.85	G
ATOM	17808	N	ASP	G1289	74.983	137.079	51.762	1.00100.07	G
ATOM	17809	CA	ASP	G1289	75.033	135.943	50.856	1.00100.07	G
ATOM	17810	CB	ASP	G1289	75.128	136.405	49.393	1.00 99.99	G
ATOM	17811	CG	ASP	G1289	73.829	136.182	48.615	1.00 99.99	G
ATOM	17812	OD1	ASP	G1289	73.307	135.045	48.625	1.00 99.99	G
ATOM	17813	OD2	ASP	G1289	73.337	137.143	47.982	1.00 99.99	G
ATOM	17814	C	ASP	G1289	76.261	135.110	51.229	1.00100.07	G
ATOM	17815	O	ASP	G1289	76.970	134.598	50.361	1.00100.07	G
ATOM	17816	N	ARG	G1290	76.507	134.997	52.533	1.00100.07	G
ATOM	17817	CA	ARG	G1290	77.631	134.224	53.071	1.00100.07	G
ATOM	17818	CB	ARG	G1290	78.925	135.049	53.080	1.00 81.73	G
ATOM	17819	CG	ARG	G1290	79.630	135.222	51.734	1.00 81.73	G
ATOM	17820	CD	ARG	G1290	80.884	136.076	51.923	1.00 81.73	G
ATOM	17821	NE	ARG	G1290	81.784	136.084	50.773	1.00 81.73	G
ATOM	17822	CZ	ARG	G1290	83.000	136.628	50.786	1.00 81.73	G
ATOM	17823	NH1	ARG	G1290	83.461	137.207	51.892	1.00 81.73	G
ATOM	17824	NH2	ARG	G1290	83.759	136.592	49.698	1.00 81.73	G
ATOM	17825	C	ARG	G1290	77.317	133.820	54.505	1.00100.07	G
ATOM	17826	O	ARG	G1290	78.072	134.164	55.415	1.00100.07	G
ATOM	17827	N	LEU	G1291	76.214	133.097	54.708	1.00 44.00	G
ATOM	17828	CA	LEU	G1291	75.819	132.677	56.054	1.00 44.00	G
ATOM	17829	CB	LEU	G1291	74.773	131.572	55.974	1.00 99.56	G
ATOM	17830	CG	LEU	G1291	73.511	132.008	55.239	1.00 99.56	G
ATOM	17831	CD1	LEU	G1291	72.437	130.962	55.448	1.00 99.56	G
ATOM	17832	CD2	LEU	G1291	73.038	133.365	55.757	1.00 99.56	G
ATOM	17833	C	LEU	G1291	77.018	132.194	56.851	1.00 44.00	G
ATOM	17834	O	LEU	G1291	77.280	132.651	57.972	1.00 44.00	G
ATOM	17835	N	SER	G1292	77.746	131.271	56.235	1.00 86.01	G
ATOM	17836	CA	SER	G1292	78.943	130.689	56.814	1.00 86.01	G
ATOM	17837	CB	SER	G1292	80.190	131.428	56.300	1.00 96.71	G
ATOM	17838	OG	SER	G1292	80.112	132.828	56.516	1.00 96.71	G
ATOM	17839	C	SER	G1292	78.963	130.641	58.334	1.00 86.01	G
ATOM	17840	O	SER	G1292	79.161	131.654	59.003	1.00 86.01	G
ATOM	17841	N	VAL	G1293	78.732	129.447	58.864	1.00 46.26	G
ATOM	17842	CA	VAL	G1293	78.768	129.198	60.297	1.00 46.26	G
ATOM	17843	CB	VAL	G1293	77.926	127.963	60.647	1.00 8.45	G
ATOM	17844	CG1	VAL	G1293	78.108	127.592	62.077	1.00 8.45	G
ATOM	17845	CG2	VAL	G1293	76.487	128.252	60.385	1.00 8.45	G
ATOM	17846	C	VAL	G1293	80.248	128.921	60.566	1.00 46.26	G
ATOM	17847	O	VAL	G1293	80.801	127.941	60.060	1.00 46.26	G
ATOM	17848	N	ALA	G1294	80.890	129.788	61.344	1.00 96.50	G
ATOM	17849	CA	ALA	G1294	82.315	129.644	61.616	1.00 96.50	G
ATOM	17850	CB	ALA	G1294	82.996	131.020	61.459	1.00 25.75	G
ATOM	17851	C	ALA	G1294	82.700	129.008	62.959	1.00 96.50	G
ATOM	17852	O	ALA	G1294	83.024	129.713	63.905	1.00 96.50	G
ATOM	17853	N	VAL	G1295	82.688	127.677	63.034	1.00 37.72	G
ATOM	17854	CA	VAL	G1295	83.057	126.954	64.262	1.00 37.72	G



ATOM	17855	CB	VAL	G1295	82.836	125.433	64.081	1.00	41.33	G
ATOM	17856	CG1	VAL	G1295	83.420	124.667	65.253	1.00	41.33	G
ATOM	17857	CG2	VAL	G1295	81.358	125.143	63.956	1.00	41.33	G
ATOM	17858	C	VAL	G1295	84.531	127.209	64.647	1.00	37.72	G
ATOM	17859	O	VAL	G1295	85.448	126.602	64.067	1.00	37.72	G
ATOM	17860	N	GLU	G1296	84.737	128.085	65.643	1.00	49.18	G
ATOM	17861	CA	GLU	G1296	86.076	128.495	66.115	1.00	49.18	G
ATOM	17862	CB	GLU	G1296	86.276	129.989	65.855	1.00	63.88	G
ATOM	17863	CG	GLU	G1296	85.400	130.888	66.711	1.00	63.88	G
ATOM	17864	CD	GLU	G1296	85.045	132.207	66.030	1.00	63.88	G
ATOM	17865	OE1	GLU	G1296	84.447	133.067	66.707	1.00	63.88	G
ATOM	17866	OE2	GLU	G1296	85.347	132.387	64.827	1.00	63.88	G
ATOM	17867	C	GLU	G1296	86.374	128.225	67.584	1.00	49.18	G
ATOM	17868	O	GLU	G1296	85.471	128.179	68.418	1.00	49.18	G
ATOM	17869	N	SER	G1297	87.660	128.092	67.894	1.00	53.13	G
ATOM	17870	CA	SER	G1297	88.092	127.801	69.256	1.00	53.13	G
ATOM	17871	CB	SER	G1297	87.462	126.497	69.689	1.00	52.77	G
ATOM	17872	OG	SER	G1297	87.895	125.482	68.807	1.00	52.77	G
ATOM	17873	C	SER	G1297	89.612	127.648	69.349	1.00	53.13	G
ATOM	17874	O	SER	G1297	90.095	126.668	69.927	1.00	53.13	G
ATOM	17875	N	GLU	G1298	90.340	128.615	68.783	1.00	98.77	G
ATOM	17876	CA	GLU	G1298	91.816	128.659	68.721	1.00	98.77	G
ATOM	17877	CB	GLU	G1298	92.467	127.888	69.873	1.00	80.31	G
ATOM	17878	CG	GLU	G1298	92.001	128.378	71.207	1.00	80.31	G
ATOM	17879	CD	GLU	G1298	91.548	129.803	71.111	1.00	80.31	G
ATOM	17880	OE1	GLU	G1298	92.422	130.687	71.023	1.00	80.31	G
ATOM	17881	OE2	GLU	G1298	90.321	130.034	71.088	1.00	80.31	G
ATOM	17882	C	GLU	G1298	92.278	128.086	67.394	1.00	98.77	G
ATOM	17883	O	GLU	G1298	93.395	127.597	67.258	1.00	98.77	G
ATOM	17884	N	GLY	G1299	91.386	128.170	66.417	1.00	97.09	G
ATOM	17885	CA	GLY	G1299	91.653	127.670	65.088	1.00	97.09	G
ATOM	17886	C	GLY	G1299	90.317	127.568	64.389	1.00	97.09	G
ATOM	17887	O	GLY	G1299	89.890	126.475	64.037	1.00	97.09	G
ATOM	17888	N	PHE	G1300	89.657	128.709	64.195	1.00	45.94	G
ATOM	17889	CA	PHE	G1300	88.348	128.744	63.552	1.00	45.94	G
ATOM	17890	CB	PHE	G1300	87.924	130.189	63.242	1.00	99.80	G
ATOM	17891	CG	PHE	G1300	88.885	130.944	62.365	1.00	99.80	G
ATOM	17892	CD1	PHE	G1300	89.239	130.464	61.105	1.00	99.80	G
ATOM	17893	CD2	PHE	G1300	89.420	132.159	62.791	1.00	99.80	G
ATOM	17894	CE1	PHE	G1300	90.119	131.179	60.278	1.00	99.80	G
ATOM	17895	CE2	PHE	G1300	90.300	132.887	61.976	1.00	99.80	G
ATOM	17896									



ATOM	17939	CD	LYS	G1305	74.446	124.332	51.300	1.00100.07	G
ATOM	17940	CE	LYS	G1305	74.634	123.403	50.115	1.00100.07	G
ATOM	17941	NZ	LYS	G1305	74.421	121.972	50.491	1.00100.07	G
ATOM	17942	C	LYS	G1305	74.390	129.052	52.478	1.00 88.70	G
ATOM	17943	O	LYS	G1305	74.702	130.028	53.165	1.00 88.70	G
ATOM	17944	N	LEU	G1306	73.144	128.799	52.070	1.00 71.40	G
ATOM	17945	CA	LEU	G1306	72.002	129.660	52.385	1.00 71.40	G
ATOM	17946	CB	LEU	G1306	71.846	130.700	51.274	1.00100.07	G
ATOM	17947	CG	LEU	G1306	73.118	131.329	50.695	1.00100.07	G
ATOM	17948	CD1	LEU	G1306	72.781	132.108	49.430	1.00100.07	G
ATOM	17949	CD2	LEU	G1306	73.759	132.236	51.731	1.00100.07	G
ATOM	17950	C	LEU	G1306	70.671	128.876	52.518	1.00 71.40	G
ATOM	17951	O	LEU	G1306	69.653	129.273	51.942	1.00 71.40	G
ATOM	17952	N	PRO	G1307	70.653	127.765	53.283	1.00100.07	G
ATOM	17953	CD	PRO	G1307	71.790	126.974	53.801	1.00100.07	G
ATOM	17954	CA	PRO	G1307	69.406	127.000	53.417	1.00100.07	G
ATOM	17955	CB	PRO	G1307	69.895	125.571	53.308	1.00100.07	G
ATOM	17956	CG	PRO	G1307	71.129	125.632	54.193	1.00100.07	G
ATOM	17957	C	PRO	G1307	68.675	127.215	54.735	1.00100.07	G
ATOM	17958	O	PRO	G1307	68.482	128.344	55.189	1.00100.07	G
ATOM	17959	N	LYS	G1308	68.270	126.096	55.332	1.00 79.79	G
ATOM	17960	CA	LYS	G1308	67.577	126.087	56.611	1.00 79.79	G
ATOM	17961	CB	LYS	G1308	66.357	125.146	56.563	1.00 87.61	G
ATOM	17962	CG	LYS	G1308	65.670	124.884	57.910	1.00 87.61	G
ATOM	17963	CD	LYS	G1308	65.625	126.119	58.798	1.00 87.61	G
ATOM	17964	CE	LYS	G1308	64.911	127.281	58.129	1.00 87.61	G
ATOM	17965	NZ	LYS	G1308	65.018	128.530	58.936	1.00 87.61	G
ATOM	17966	C	LYS	G1308	68.576	125.635	57.664	1.00 79.79	G
ATOM	17967	O	LYS	G1308	69.071	124.512	57.645	1.00 79.79	G
ATOM	17968	N	ASP	G1309	68.886	126.541	58.575	1.00 67.57	G
ATOM	17969	CA	ASP	G1309	69.833	126.251	59.632	1.00 67.57	G
ATOM	17970	CB	ASP	G1309	70.265	127.548	60.306	1.00 71.72	G
ATOM	17971	CG	ASP	G1309	71.671	127.478	60.839	1.00 71.72	G
ATOM	17972	OD1	ASP	G1309	71.908	126.716	61.802	1.00 71.72	G
ATOM	17973	OD2	ASP	G1309	72.539	128.182	60.284	1.00 71.72	G
ATOM	17974	C	ASP	G1309	69.151	125.349	60.633	1.00 67.57	G
ATOM	17975	O	ASP	G1309	68.019	124.930	60.409	1.00 67.57	G
ATOM	17976	N	ALA	G1310	69.833	125.064	61.737	1.00 74.93	G
ATOM	17977	CA	ALA	G1310	69.282	124.200	62.771	1.00 74.93	G
ATOM	17978	CB	ALA	G1310	69.829	122.785	62.619	1.00100.07	G
ATOM	17979	C	ALA	G1310	69.582	124.717	64.166	1.00 74.93	G
ATOM	17980	O	ALA	G1310	70.421	124.141	64.870	1.00 74.93	G
ATOM	17981	N	ARG	G1311	68.896	125.798	64.550	1.00100.07	G



ATOM	18023	O	LYS	G1315	77.932	124.109	72.260	1.00	33.32	G
ATOM	18024	N	ALA	G1316	78.173	124.852	70.146	1.00	73.20	G
ATOM	18025	CA	ALA	G1316	78.090	123.532	69.542	1.00	73.20	G
ATOM	18026	CB	ALA	G1316	77.795	123.643	68.045	1.00	52.73	G
ATOM	18027	C	ALA	G1316	79.404	122.817	69.752	1.00	73.20	G
ATOM	18028	O	ALA	G1316	80.012	122.357	68.787	1.00	73.20	G
ATOM	18029	N	GLY	G1317	79.846	122.747	71.009	1.00	51.24	G
ATOM	18030	CA	GLY	G1317	81.085	122.063	71.309	1.00	51.24	G
ATOM	18031	C	GLY	G1317	81.131	120.911	70.332	1.00	51.24	G
ATOM	18032	O	GLY	G1317	82.045	120.810	69.511	1.00	51.24	G
ATOM	18033	N	ALA	G1318	80.098	120.074	70.397	1.00	73.77	G
ATOM	18034	CA	ALA	G1318	79.958	118.920	69.521	1.00	73.77	G
ATOM	18035	CB	ALA	G1318	78.974	119.239	68.427	1.00	96.53	G
ATOM	18036	C	ALA	G1318	81.277	118.476	68.913	1.00	73.77	G
ATOM	18037	O	ALA	G1318	82.324	118.576	69.531	1.00	73.77	G
ATOM	18038	N	TYR	G1319	81.213	117.980	67.688	1.00	71.56	G
ATOM	18039	CA	TYR	G1319	82.381	117.496	66.965	1.00	71.56	G
ATOM	18040	CB	TYR	G1319	83.007	116.304	67.700	1.00	100.07	G
ATOM	18041	CG	TYR	G1319	82.040	115.608	68.634	1.00	100.07	G
ATOM	18042	CD1	TYR	G1319	80.958	114.883	68.142	1.00	100.07	G
ATOM	18043	CE1	TYR	G1319	80.014	114.318	69.006	1.00	100.07	G
ATOM	18044	CD2	TYR	G1319	82.160	115.747	70.016	1.00	100.07	G
ATOM	18045	CE2	TYR	G1319	81.225	115.193	70.884	1.00	100.07	G
ATOM	18046	CZ	TYR	G1319	80.156	114.483	70.375	1.00	100.07	G
ATOM	18047	OH	TYR	G1319	79.226	113.951	71.239	1.00	100.07	G
ATOM	18048	C	TYR	G1319	81.820	117.049	65.634	1.00	71.56	G
ATOM	18049	O	TYR	G1319	82.557	116.701	64.716	1.00	71.56	G
ATOM	18050	N	VAL	G1320	80.490	117.080	65.560	1.00	13.09	G
ATOM	18051	CA	VAL	G1320	79.735	116.682	64.381	1.00	13.09	G
ATOM	18052	CB	VAL	G1320	79.529	115.155	64.358	1.00	52.26	G
ATOM	18053	CG1	VAL	G1320	78.414	114.791	63.391	1.00	52.26	G
ATOM	18054	CG2	VAL	G1320	80.829	114.461	63.965	1.00	52.26	G
ATOM	18055	C	VAL	G1320	78.362	117.343	64.385	1.00	13.09	G
ATOM	18056	O	VAL	G1320	77.978	118.014	63.430	1.00	13.09	G
ATOM	18057	N	GLU	G1321	77.634	117.132	65.475	1.00	17.84	G
ATOM	18058	CA	GLU	G1321	76.283	117.666	65.655	1.00	17.84	G
ATOM	18059	CB	GLU	G1321	76.241	118.670	66.809	1.00	99.95	G
ATOM	18060	CG	GLU	G1321	75.968	118.063	68.170	1.00	99.95	G
ATOM	18061	CD	GLU	G1321	75.555	119.110	69.192	1.00	99.95	G
ATOM	18062	OE1	GLU	G1321	75.370	118.751	70.376	1.00	99.95	G
ATOM	18063	OE2	GLU	G1321	75.410	120.292	68.805	1.00	99.95	G
ATOM	18064	C	GLU	G1321	75.647	118.317	64.443	1.00	17.84	G
ATOM	18065	O	GLU	G1321	75.143	119.426	64.542	1.00	17.84	G
ATOM	18066	N	ALA	G1322	75.647	117.627	63.314	1.00	15.61	G
ATOM	18067	CA	ALA	G1322	75.050	118.196	62.121	1.00	15.61	G
ATOM	18068	CB	ALA	G1322	73.527	118.012	62.167	1.00	41.99	G
ATOM	18069	C	ALA	G1322	75.394	119.685	62.050	1.00	15.61	G
ATOM	18070	O	ALA	G1322	74.731	120.492	62.698	1.00	15.61	G
ATOM	18071	N	GLY	G1323	76.430	120.026	61.274	1.00	62.42	G
ATOM	18072	CA	GLY	G1323	76.886	121.408	61.100	1.00	62.42	G
ATOM	18073	C	GLY	G1323	75.957	122.450	61.687	1.00	62.42	G
ATOM	18074	O	GLY	G1323	76.387	123.412	62.326	1.00	62.42	G
ATOM	18075	N	GLN	G1324	74.677	122.232	61.414	1.00	62.08	G
ATOM	18076	CA	GLN	G1324	73.539	123.004	61.884	1.00	62.08	G
ATOM	18077	CB	GLN	G1324	73.959	124.132	62.837	1.00	56.92	G
ATOM	18078	CG	GLN	G1324	73.590	123.779	64.298	1.00	56.92	G
ATOM	18079	CD	GLN	G1324	74.378	124.546	65.347	1.00	56.92	G
ATOM	18080	OE1	GLN	G1324	75.604	124.417	65.454	1.00	56.92	G
ATOM	18081	NE2	GLN	G1324	73.674	125.341	66.136	1.00	56.92	G
ATOM	18082	C	GLN	G1324	72.522	123.486	60.859	1.00	62.08	G
ATOM	18083	O	GLN	G1324	72.041	124.613	60.912	1.00	62.08	G
ATOM	18084	N	PRO	G1325	72.228	122.631	59.869	1.00	41.29	G
ATOM	18085	CD	PRO	G1325	73.319	121.846	59.279	1.00	22.02	G
ATOM	18086	CA	PRO	G1325	71.245	122.911	58.823	1.00	41.29	G
ATOM	18087	CB	PRO	G1325	72.033	122.688	57.520	1.00	22.02	G
ATOM	18088	CG	PRO	G1325	73.475	122.538	57.956	1.00	22.02	G
ATOM	18089	C	PRO	G1325	70.180	121.816	59.078	1.00	41.29	G
ATOM	18090	O	PRO	G1325	70.499	120.613	59.113	1.00	41.29	G
ATOM	18091	N	LEU	G1326	68.936	122.232	59.310	1.00	78.13	G
ATOM	18092	CA	LEU	G1326	67.842	121.290	59.574	1.00	78.13	G
ATOM	18093	CB	LEU	G1326	66.485	122.012	59.529	1.00	100.07	G
ATOM	18094	CG	LEU	G1326	65.155	121.240	59.567	1.00	100.07	G
ATOM	18095	CD1	LEU	G1326	65.144	120.207	60.682	1.00	100.07	G
ATOM	18096	CD2	LEU	G1326	64.021	122.239	59.758	1.00	100.07	G
ATOM	18097	C	LEU	G1326	67.892	120.199	58.527	1.00	78.13	G
ATOM	18098	O	LEU	G1326	67.145	119.225	58.585	1.00	78.13	G
ATOM	18099	N	THR	G1327	68.785	120.400	57.564	1.00	68.34	G
ATOM	18100	CA	THR	G1327	69.028	119.476	56.472	1.00	68.34	G
ATOM	18101	CB	THR	G1327	70.271	119.898	55.704	1.00	100.07	G
ATOM	18102	OG1	THR	G1327	71.297	120.218	56.648	1.00	100.07	G
ATOM	18103	CG2	THR	G1327	69.984	121.123	54.833	1.00	100.07	G
ATOM	18104	C	THR	G1327	69.262	118.099	57.071	1.00	68.34	G
ATOM	18105	O	THR	G1327	68.832	117.087	56.523	1.00	68.34	G
ATOM	18106	N	ARG	G1328	69.957	118.069	58.199	1.00	70.92	G



ATOM	18107	CA	ARG	G1328	70.220	116.820	58.898	1.00	70.92	G
ATOM	18108	CB	ARG	G1328	69.021	116.482	59.808	1.00	84.36	G
ATOM	18109	CG	ARG	G1328	67.786	115.908	59.081	1.00	84.36	G
ATOM	18110	CD	ARG	G1328	66.631	115.629	60.051	1.00	84.36	G
ATOM	18111	NE	ARG	G1328	65.625	114.726	59.489	1.00	84.36	G
ATOM	18112	CZ	ARG	G1328	64.893	114.987	58.411	1.00	84.36	G
ATOM	18113	NH1	ARG	G1328	65.042	116.131	57.759	1.00	84.36	G
ATOM	18114	NH2	ARG	G1328	64.008	114.100	57.984	1.00	84.36	G
ATOM	18115	C	ARG	G1328	70.547	115.602	58.012	1.00	70.92	G
ATOM	18116	O	ARG	G1328	70.637	114.482	58.515	1.00	70.92	G
ATOM	18117	N	GLY	G1329	70.730	115.801	56.710	1.00	33.72	G
ATOM	18118	CA	GLY	G1329	71.043	114.671	55.854	1.00	33.72	G
ATOM	18119	C	GLY	G1329	72.463	114.175	56.087	1.00	33.72	G
ATOM	18120	O	GLY	G1329	73.117	113.727	55.139	1.00	33.72	G
ATOM	18121	N	ALA	G1330	72.924	114.236	57.346	1.00	27.80	G
ATOM	18122	CA	ALA	G1330	74.284	113.842	57.736	1.00	27.80	G
ATOM	18123	CB	ALA	G1330	74.262	112.929	58.944	1.00	5.07	G
ATOM	18124	C	ALA	G1330	75.018	113.183	56.597	1.00	27.80	G
ATOM	18125	O	ALA	G1330	74.900	111.988	56.377	1.00	27.80	G
ATOM	18126	N	ILE	G1331	75.750	114.008	55.861	1.00	29.75	G
ATOM	18127	CA	ILE	G1331	76.541	113.598	54.703	1.00	29.75	G
ATOM	18128	CB	ILE	G1331	77.830	114.501	54.562	1.00	54.85	G
ATOM	18129	CG2	ILE	G1331	78.054	114.894	53.093	1.00	54.85	G
ATOM	18130	CG1	ILE	G1331	77.698	115.755	55.450	1.00	54.85	G
ATOM	18131	CD	ILE	G1331	78.843	116.748	55.367	1.00	54.85	G
ATOM	18132	C	ILE	G1331	76.952	112.146	54.862	1.00	29.75	G
ATOM	18133	O	ILE	G1331	76.834	111.347	53.947	1.00	29.75	G
ATOM	18134	N	ASP	G1332	77.456	111.827	56.045	1.00	18.86	G
ATOM	18135	CA	ASP	G1332	77.909	110.488	56.389	1.00	18.86	G
ATOM	18136	CB	ASP	G1332	76.732	109.563	56.673	1.00	100.00.07	G
ATOM	18137	CG	ASP	G1332	75.896	109.281	55.436	1.00	100.00.07	G
ATOM	18138	OD1	ASP	G1332	74.849	109.937	55.259	1.00	100.00.07	G
ATOM	18139	OD2	ASP	G1332	76.287	108.409	54.634	1.00	100.00.07	G
ATOM	18140	C	ASP	G1332	78.727	109.835	55.327	1.00	18.86	G
ATOM	18141	O	ASP	G1332	78.968	108.637	55.409	1.00	18.86	G
ATOM	18142	N	PRO	G1333	79.192	110.603	54.331	1.00	100.00.02	G
ATOM	18143	CD	PRO	G1333	79.535	112.031	54.328	1.00	54.66	G
ATOM	18144	CA	PRO	G1333	79.972	109.937	53.304	1.00	100.00.02	G
ATOM	18145	CB	PRO	G1333	79.972	110.952	52.163	1.00	54.66	G
ATOM	18146	CG	PRO	G1333	79.686	112.319	52.852	1.00	54.66	G
ATOM	18147	C	PRO	G1333	81.349	109.708	53.858	1.00	100.00.02	G
ATOM	1814									



ATOM	18191	C	GLU	G1338	86.552	111.515	60.689	1.00	68.84	G
ATOM	18192	O	GLU	G1338	87.437	111.821	61.489	1.00	68.84	G
ATOM	18193	N	ALA	G1339	85.349	112.065	60.682	1.00	52.81	G
ATOM	18194	CA	ALA	G1339	84.979	113.042	61.670	1.00	52.81	G
ATOM	18195	CB	ALA	G1339	83.552	113.482	61.461	1.00	32.57	G
ATOM	18196	C	ALA	G1339	85.119	112.305	62.985	1.00	52.81	G
ATOM	18197	O	ALA	G1339	85.980	112.646	63.795	1.00	52.81	G
ATOM	18198	N	LYS	G1340	84.292	111.274	63.183	1.00	38.81	G
ATOM	18199	CA	LYS	G1340	84.341	110.493	64.417	1.00	38.81	G
ATOM	18200	CB	LYS	G1340	83.207	110.902	65.377	1.00	72.23	G
ATOM	18201	CG	LYS	G1340	83.432	110.371	66.805	1.00	72.23	G
ATOM	18202	CD	LYS	G1340	82.182	110.409	67.694	1.00	72.23	G
ATOM	18203	CE	LYS	G1340	82.413	109.667	69.033	1.00	72.23	G
ATOM	18204	NZ	LYS	G1340	81.175	109.524	69.877	1.00	72.23	G
ATOM	18205	C	LYS	G1340	84.299	108.983	64.217	1.00	38.81	G
ATOM	18206	O	LYS	G1340	83.276	108.353	64.461	1.00	38.81	G
ATOM	18207	N	GLY	G1341	85.422	108.413	63.786	1.00	79.81	G
ATOM	18208	CA	GLY	G1341	85.521	106.973	63.583	1.00	79.81	G
ATOM	18209	C	GLY	G1341	84.392	106.261	62.849	1.00	79.81	G
ATOM	18210	O	GLY	G1341	83.558	106.912	62.224	1.00	79.81	G
ATOM	18211	N	PRO	G1342	84.352	104.912	62.897	1.00	38.38	G
ATOM	18212	CD	PRO	G1342	85.452	104.049	63.363	1.00	33.97	G
ATOM	18213	CA	PRO	G1342	83.336	104.084	62.247	1.00	38.38	G
ATOM	18214	CB	PRO	G1342	84.122	102.850	61.857	1.00	33.97	G
ATOM	18215	CG	PRO	G1342	84.922	102.633	63.071	1.00	33.97	G
ATOM	18216	C	PRO	G1342	82.204	103.720	63.187	1.00	38.38	G
ATOM	18217	O	PRO	G1342	81.063	103.549	62.759	1.00	38.38	G
ATOM	18218	N	GLU	G1343	82.533	103.587	64.465	1.00	57.73	G
ATOM	18219	CA	GLU	G1343	81.549	103.216	65.465	1.00	57.73	G
ATOM	18220	CB	GLU	G1343	82.238	103.041	66.813	1.00	100.07	G
ATOM	18221	CG	GLU	G1343	83.347	102.012	66.762	1.00	100.07	G
ATOM	18222	CD	GLU	G1343	83.958	101.736	68.116	1.00	100.07	G
ATOM	18223	OE1	GLU	G1343	84.495	102.683	68.732	1.00	100.07	G
ATOM	18224	OE2	GLU	G1343	83.901	100.569	68.560	1.00	100.07	G
ATOM	18225	C	GLU	G1343	80.400	104.214	65.569	1.00	57.73	G
ATOM	18226	O	GLU	G1343	79.259	103.834	65.858	1.00	57.73	G
ATOM	18227	N	ALA	G1344	80.690	105.492	65.346	1.00	46.13	G
ATOM	18228	CA	ALA	G1344	79.637	106.492	65.400	1.00	46.13	G
ATOM	18229	CB	ALA	G1344	80.232	107.890	65.395	1.00	98.70	G
ATOM	18230	C	ALA	G1344	78.836	106.244	64.131	1.00	46.13	G
ATOM	18231	O	ALA	G1344	77.611	106.166	64.150	1.00	46.13	G
ATOM	18232	N	VAL	G1345	79.554	106.098	63.025	1.00	36.62	G
ATOM	18233	CA	VAL	G1345	78.944	105.838	61.735	1.00	36.62	G
ATOM	18234	CB	VAL	G1345	80.033	105.569	60.693	1.00	22.29	G
ATOM	18235	CG1	VAL	G1345	79.437	104.903	59.460	1.00	22.29	G
ATOM	18236	CG2	VAL	G1345	80.707	106.878	60.337	1.00	22.29	G
ATOM	18237	C	VAL	G1345	77.977	104.652	61.782	1.00	36.62	G
ATOM	18238	O	VAL	G1345	76.774	104.825	61.573	1.00	36.62	G
ATOM	18239	N	GLU	G1346	78.510	103.455	62.051	1.00	42.14	G
ATOM	18240	CA	GLU	G1346	77.696	102.238	62.116	1.00	42.14	G
ATOM	18241	CB	GLU	G1346	78.356	101.176	62.997	1.00	67.01	G
ATOM	18242	CG	GLU	G1346	79.682	100.662	62.471	1.00	67.01	G
ATOM	18243	CD	GLU	G1346	80.155	99.425	63.209	1.00	67.01	G
ATOM	18244	OE1	GLU	G1346	79.422	98.413	63.187	1.00	67.01	G
ATOM	18245	OE2	GLU	G1346	81.255	99.460	63.807	1.00	67.01	G
ATOM	18246	C	GLU	G1346	76.362	102.616	62.705	1.00	42.14	G
ATOM	18247	O	GLU	G1346	75.305	102.283	62.171	1.00	42.14	G
ATOM	18248	N	ARG	G1347	76.435	103.338	63.811	1.00	33.71	G
ATOM	18249	CA	ARG	G1347	75.248	103.803	64.487	1.00	33.71	G
ATOM	18250	CB	ARG	G1347	75.622	104.706	65.664	1.00	100.07	G
ATOM	18251	CG	ARG	G1347	75.473	104.099	67.055	1.00	100.07	G
ATOM	18252	CD	ARG	G1347	75.469	105.213	68.109	1.00	100.07	G
ATOM	18253	NE	ARG	G1347	75.255	104.720	69.467	1.00	100.07	G
ATOM	18254	CZ	ARG	G1347	74.939	105.503	70.492	1.00	100.07	G
ATOM	18255	NH1	ARG	G1347	74.803	106.807	70.299	1.00	100.07	G
ATOM	18256	NH2	ARG	G1347	74.760	104.990	71.706	1.00	100.07	G
ATOM	18257	C	ARG	G1347	74.401	104.605	63.518	1.00	33.71	G
ATOM	18258	O	ARG	G1347	73.193	104.419	63.444	1.00	33.71	G
ATOM	18259	N	TYR	G1348	75.032	105.498	62.769	1.00	27.52	G
ATOM	18260	CA	TYR	G1348	74.277	106.336	61.855	1.00	27.52	G
ATOM	18261	CB	TYR	G1348	75.176	107.349	61.188	1.00	19.59	G
ATOM	18262	CG	TYR	G1348	74.356	108.319	60.404	1.00	19.59	G
ATOM	18263	CD1	TYR	G1348	73.309	108.984	61.000	1.00	19.59	G
ATOM	18264	CE1	TYR	G1348	72.551	109.893	60.298	1.00	19.59	G
ATOM	18265	CD2	TYR	G1348	74.630	108.582	59.085	1.00	19.59	G
ATOM	18266	CE2	TYR	G1348	73.885	109.493	58.368	1.00	19.59	G
ATOM	18267	CZ	TYR	G1348	72.849	110.156	58.981	1.00	19.59	G
ATOM	18268	OH	TYR	G1348	72.142	111.127	58.294	1.00	19.59	G
ATOM	18269	C	TYR	G1348	73.437	105.647	60.776	1.00	27.52	G
ATOM	18270	O	TYR	G1348	72.526	106.267	60.199	1.00	27.52	G
ATOM	18271	N	LEU	G1349	73.755	104.388	60.476	1.00	24.73	G
ATOM	18272	CA	LEU	G1349	72.977	103.636	59.499	1.00	24.73	G
ATOM	18273	CB	LEU	G1349	73.855	102.627	58.748	1.00	12.05	G
ATOM	18274	CG	LEU	G1349	74.913	103.183	57.782	1.00	12.05	G



ATOM	18275	CD1	LEU	G1349	74.361	104.390	57.032	1.00	12.05	G
ATOM	18276	CD2	LEU	G1349	76.160	103.574	58.558	1.00	12.05	G
ATOM	18277	C	LEU	G1349	71.875	102.910	60.274	1.00	24.73	G
ATOM	18278	O	LEU	G1349	70.742	103.392	60.340	1.00	24.73	G
ATOM	18279	N	VAL	G1350	72.225	101.773	60.881	1.00	18.94	G
ATOM	18280	CA	VAL	G1350	71.276	100.972	61.657	1.00	18.94	G
ATOM	18281	CB	VAL	G1350	71.919	100.359	62.914	1.00	31.45	G
ATOM	18282	CG1	VAL	G1350	70.840	99.943	63.899	1.00	31.45	G
ATOM	18283	CG2	VAL	G1350	72.757	99.158	62.537	1.00	31.45	G
ATOM	18284	C	VAL	G1350	70.114	101.807	62.117	1.00	18.94	G
ATOM	18285	O	VAL	G1350	68.969	101.435	61.922	1.00	18.94	G
ATOM	18286	N	ASP	G1351	70.410	102.935	62.744	1.00	46.85	G
ATOM	18287	CA	ASP	G1351	69.352	103.792	63.209	1.00	46.85	G
ATOM	18288	CB	ASP	G1351	69.904	104.895	64.101	1.00	63.80	G
ATOM	18289	CG	ASP	G1351	70.402	104.370	65.431	1.00	63.80	G
ATOM	18290	OD1	ASP	G1351	69.677	103.580	66.081	1.00	63.80	G
ATOM	18291	OD2	ASP	G1351	71.516	104.758	65.836	1.00	63.80	G
ATOM	18292	C	ASP	G1351	68.649	104.393	62.013	1.00	46.85	G
ATOM	18293	O	ASP	G1351	67.459	104.166	61.811	1.00	46.85	G
ATOM	18294	N	GLU	G1352	69.396	105.133	61.201	1.00	22.79	G
ATOM	18295	CA	GLU	G1352	68.835	105.804	60.022	1.00	22.79	G
ATOM	18296	CB	GLU	G1352	69.959	106.592	59.338	1.00	53.67	G
ATOM	18297	CG	GLU	G1352	69.509	107.768	58.491	1.00	53.67	G
ATOM	18298	CD	GLU	G1352	68.800	108.829	59.292	1.00	53.67	G
ATOM	18299	OE1	GLU	G1352	69.364	109.288	60.304	1.00	53.67	G
ATOM	18300	OE2	GLU	G1352	67.680	109.209	58.900	1.00	53.67	G
ATOM	18301	C	GLU	G1352	68.130	104.842	59.021	1.00	22.79	G
ATOM	18302	O	GLU	G1352	67.014	105.116	58.521	1.00	22.79	G
ATOM	18303	N	ILE	G1353	68.798	103.727	58.732	1.00	33.46	G
ATOM	18304	CA	ILE	G1353	68.276	102.701	57.842	1.00	33.46	G
ATOM	18305	CB	ILE	G1353	69.126	101.433	57.937	1.00	60.92	G
ATOM	18306	CG2	ILE	G1353	68.356	100.229	57.416	1.00	60.92	G
ATOM	18307	CG1	ILE	G1353	70.415	101.631	57.164	1.00	60.92	G
ATOM	18308	CD	ILE	G1353	70.206	101.639	55.690	1.00	60.92	G
ATOM	18309	C	ILE	G1353	66.868	102.340	58.265	1.00	33.46	G
ATOM	18310	O	ILE	G1353	66.075	101.867	57.459	1.00	33.46	G
ATOM	18311	N	GLN	G1354	66.568	102.563	59.542	1.00	24.60	G
ATOM	18312	CA	GLN	G1354	65.273	102.222	60.107	1.00	24.60	G
ATOM	18313	CB	GLN	G1354	65.442	101.855	61.572	1.00	23.11	G
ATOM	18314	CG	GLN	G1354	64.459	100.817	62.050	1.00	23.11	G
ATOM	18315	CD	GLN	G1354	65.027	99.412	62.053	1.00	23.11	G
ATOM	18316	OE1	GLN	G1354	64.280	98.440	62.083	1.00	23.11	G
ATOM	18317	NE2	GLN	G1354	66.344	99.299	62.041	1.00	23.11	G
ATOM	18318	C	GLN	G1354	64.257	103.339	59.986	1.00	24.60	G
ATOM	18319	O	GLN	G1354	63.275	103.217	59.263	1.00	24.60	G
ATOM	18320	N	LYS	G1355	64.496	104.414	60.726	1.00	25.11	G
ATOM	18321	CA	LYS	G1355	63.634	105.588	60.725	1.00	25.11	G
ATOM	18322	CB	LYS	G1355	64.502	106.843	60.590	1.00	100.07	G
ATOM	18323	CG	LYS	G1355	63.754	108.163	60.563	1.00	100.07	G
ATOM	18324	CD	LYS	G1355	64.744	109.322	60.448	1.00	100.07	G
ATOM	18325	CE	LYS	G1355	64.051	110.643	60.114	1.00	100.07	G
ATOM	18326	NZ	LYS	G1355	65.018	111.756	59.835	1.00	100.07	G
ATOM	18327	C	LYS	G1355	62.624	105.508	59.587	1.00	25.11	G
ATOM	18328	O	LYS	G1355	61.411	105.500	59.821	1.00	25.11	G
ATOM	18329	N	VAL	G1356	63.137	105.413	58.359	1.00	32.35	G
ATOM	18330	CA	VAL	G1356	62.287	105.335	57.174	1.00	32.35	G
ATOM	18331	CB	VAL	G1356	63.083	105.088	55.905	1.00	71.55	G
ATOM	18332	CG1	VAL	G1356	62.130	104.972	54.731	1.00	71.55	G
ATOM	18333	CG2	VAL	G1356	64.059	106.227	55.685	1.00	71.55	G
ATOM	18334	C	VAL	G1356	61.291	104.219	57.301	1.00	32.35	G
ATOM	18335	O	VAL	G1356	60.092	104.441	57.164	1.00	32.35	G
ATOM	18336	N	TYR	G1357	61.784	103.009	57.527	1.00	12.31	G
ATOM	18337	CA	TYR	G1357	60.867	101.904	57.706	1.00	12.31	G
ATOM	18338	CB	TYR	G1357	61.572	100.572	57.976	1.00	32.25	G
ATOM	18339	CG	TYR	G1357	62.207	99.884	56.798	1.00	32.25	G
ATOM	18340	CD1	TYR	G1357	62.957	98.735	56.986	1.00	32.25	G
ATOM	18341	CE1	TYR	G1357	63.607	98.135	55.950	1.00	32.25	G
ATOM	18342	CD2	TYR	G1357	62.114	100.408	55.520	1.00	32.25	G
ATOM	18343	CE2	TYR	G1357	62.760	99.814	54.470	1.00	32.25	G
ATOM	18344	CZ	TYR	G1357	63.514	98.676	54.693	1.00	32.25	G
ATOM	18345	OH	TYR	G1357	64.217	98.100	53.653	1.00	32.25	G
ATOM	18346	C	TYR	G1357	60.102	102.251	58.957	1.00	12.31	G
ATOM	18347	O	TYR	G1357	58.884	102.316	58.950	1.00	12.31	G
ATOM	18348	N	ARG	G1358	60.837	102.493	60.034	1.00	28.55	G
ATOM	18349	CA	ARG	G1358	60.218	102.783	61.310	1.00	28.55	G
ATOM	18350	CB	ARG	G1358	61.219	103.447	62.241	1.00	61.23	G
ATOM	18351	CG	ARG	G1358	61.461	102.594	63.469	1.00	61.23	G
ATOM	18352	CD	ARG	G1358	62.801	102.869	64.089	1.00	61.23	G
ATOM	18353	NE	ARG	G1358	63.224	101.749	64.918	1.00	61.23	G
ATOM	18354	CZ	ARG	G1358	64.392	101.694	65.544	1.00	61.23	G
ATOM	18355	NH1	ARG	G1358	65.249	102.702	65.434	1.00	61.23	G
ATOM	18356	NH2	ARG	G1358	64.704	100.635	66.279	1.00	61.23	G
ATOM	18357	C	ARG	G1358	58.933	103.581	61.248	1.00	28.55	G
ATOM	18358	O	ARG	G1358	58.092	103.453	62.134	1.00	28.55	G



ATOM	18359	N	ALA	G1359	58.768	104.385	60.201	1.00	35.35	G
ATOM	18360	CA	ALA	G1359	57.548	105.168	60.039	1.00	35.35	G
ATOM	18361	CB	ALA	G1359	57.857	106.449	59.290	1.00	5.07	G
ATOM	18362	C	ALA	G1359	56.421	104.376	59.325	1.00	35.35	G
ATOM	18363	O	ALA	G1359	55.670	104.931	58.517	1.00	35.35	G
ATOM	18364	N	GLN	G1360	56.324	103.079	59.642	1.00	55.78	G
ATOM	18365	CA	GLN	G1360	55.306	102.153	59.111	1.00	55.78	G
ATOM	18366	CB	GLN	G1360	55.011	102.459	57.634	1.00	60.86	G
ATOM	18367	CG	GLN	G1360	56.242	102.658	56.767	1.00	60.86	G
ATOM	18368	CD	GLN	G1360	56.293	104.028	56.095	1.00	60.86	G
ATOM	18369	OE1	GLN	G1360	55.413	104.388	55.311	1.00	60.86	G
ATOM	18370	NE2	GLN	G1360	57.335	104.794	56.398	1.00	60.86	G
ATOM	18371	C	GLN	G1360	55.646	100.649	59.312	1.00	55.78	G
ATOM	18372	O	GLN	G1360	54.895	99.928	59.982	1.00	55.78	G
ATOM	18373	N	GLY	G1361	56.775	100.191	58.755	1.00	66.25	G
ATOM	18374	CA	GLY	G1361	57.200	98.794	58.878	1.00	66.25	G
ATOM	18375	C	GLY	G1361	57.644	98.405	60.278	1.00	66.25	G
ATOM	18376	O	GLY	G1361	57.312	99.102	61.233	1.00	66.25	G
ATOM	18377	N	VAL	G1362	58.378	97.301	60.421	1.00	26.34	G
ATOM	18378	CA	VAL	G1362	58.847	96.852	61.748	1.00	26.34	G
ATOM	18379	CB	VAL	G1362	57.765	96.082	62.514	1.00	51.84	G
ATOM	18380	CG1	VAL	G1362	58.077	96.098	64.005	1.00	51.84	G
ATOM	18381	CG2	VAL	G1362	56.398	96.652	62.219	1.00	51.84	G
ATOM	18382	C	VAL	G1362	60.037	95.893	61.699	1.00	26.34	G
ATOM	18383	O	VAL	G1362	60.156	95.026	62.563	1.00	26.34	G
ATOM	18384	N	ALA	G1363	60.906	96.041	60.695	1.00	53.76	G
ATOM	18385	CA	ALA	G1363	62.072	95.165	60.529	1.00	53.76	G
ATOM	18386	CB	ALA	G1363	63.171	95.862	59.705	1.00	5.07	G
ATOM	18387	C	ALA	G1363	62.608	94.753	61.883	1.00	53.76	G
ATOM	18388	O	ALA	G1363	62.649	95.549	62.817	1.00	53.76	G
ATOM	18389	N	ALA	G1364	62.989	93.492	61.995	1.00	67.41	G
ATOM	18390	CA	ALA	G1364	63.515	92.986	63.249	1.00	67.41	G
ATOM	18391	CB	ALA	G1364	63.611	91.458	63.205	1.00	70.33	G
ATOM	18392	C	ALA	G1364	64.880	93.596	63.522	1.00	67.41	G
ATOM	18393	O	ALA	G1364	65.844	92.876	63.782	1.00	67.41	G
ATOM	18394	N	HIS	G1365	64.954	94.925	63.462	1.00	37.62	G
ATOM	18395	CA	HIS	G1365	66.203	95.646	63.714	1.00	37.62	G
ATOM	18396	CB	HIS	G1365	65.906	97.094	64.152	1.00	100.05	G
ATOM	18397	CG	HIS	G1365	66.887	97.662	65.136	1.00	100.05	G
ATOM	18398	CD2	HIS	G1365	66.706	98.485	66.196	1.00	100.05	G
ATOM	18399	ND1	HIS	G1365	68.242	97.419	65.071	1.00	100.05	G
ATOM	18400	CE1	HIS	G1365	68.852	98.066</				



ATOM	18443	CD	GLU	G1370	72.916	95.729	65.497	1.00	51.14	G
ATOM	18444	OE1	GLU	G1370	73.561	95.073	66.364	1.00	51.14	G
ATOM	18445	OE2	GLU	G1370	72.613	96.933	65.655	1.00	51.14	G
ATOM	18446	C	GLU	G1370	74.425	94.391	60.901	1.00	45.01	G
ATOM	18447	O	GLU	G1370	75.259	94.896	60.156	1.00	45.01	G
ATOM	18448	N	ILE	G1371	74.100	93.098	60.858	1.00	36.41	G
ATOM	18449	CA	ILE	G1371	74.739	92.163	59.926	1.00	36.41	G
ATOM	18450	CB	ILE	G1371	73.794	91.043	59.462	1.00	5.07	G
ATOM	18451	CG2	ILE	G1371	74.418	90.314	58.318	1.00	5.07	G
ATOM	18452	CG1	ILE	G1371	73.544	90.037	60.577	1.00	5.07	G
ATOM	18453	CD	ILE	G1371	74.794	89.299	61.011	1.00	5.07	G
ATOM	18454	C	ILE	G1371	75.213	92.848	58.657	1.00	36.41	G
ATOM	18455	O	ILE	G1371	76.397	92.783	58.306	1.00	36.41	G
ATOM	18456	N	VAL	G1372	74.284	93.486	57.953	1.00	30.35	G
ATOM	18457	CA	VAL	G1372	74.668	94.157	56.727	1.00	30.35	G
ATOM	18458	CB	VAL	G1372	73.435	94.722	55.970	1.00	18.98	G
ATOM	18459	CG1	VAL	G1372	73.838	95.850	55.018	1.00	18.98	G
ATOM	18460	CG2	VAL	G1372	72.807	93.615	55.154	1.00	18.98	G
ATOM	18461	C	VAL	G1372	75.686	95.256	56.998	1.00	30.35	G
ATOM	18462	O	VAL	G1372	76.726	95.297	56.348	1.00	30.35	G
ATOM	18463	N	VAL	G1373	75.406	96.132	57.962	1.00	32.36	G
ATOM	18464	CA	VAL	G1373	76.337	97.219	58.274	1.00	32.36	G
ATOM	18465	CB	VAL	G1373	75.956	97.973	59.582	1.00	19.30	G
ATOM	18466	CG1	VAL	G1373	77.206	98.580	60.230	1.00	19.30	G
ATOM	18467	CG2	VAL	G1373	74.955	99.090	59.264	1.00	19.30	G
ATOM	18468	C	VAL	G1373	77.754	96.690	58.404	1.00	32.36	G
ATOM	18469	O	VAL	G1373	78.674	97.215	57.779	1.00	32.36	G
ATOM	18470	N	ARG	G1374	77.940	95.646	59.203	1.00	30.31	G
ATOM	18471	CA	ARG	G1374	79.278	95.100	59.353	1.00	30.31	G
ATOM	18472	CB	ARG	G1374	79.265	93.805	60.157	1.00	35.80	G
ATOM	18473	CG	ARG	G1374	80.651	93.390	60.552	1.00	35.80	G
ATOM	18474	CD	ARG	G1374	80.758	91.913	60.635	1.00	35.80	G
ATOM	18475	NE	ARG	G1374	80.234	91.405	61.886	1.00	35.80	G
ATOM	18476	CZ	ARG	G1374	80.157	90.112	62.183	1.00	35.80	G
ATOM	18477	NH1	ARG	G1374	80.565	89.191	61.315	1.00	35.80	G
ATOM	18478	NH2	ARG	G1374	79.685	89.734	63.363	1.00	35.80	G
ATOM	18479	C	ARG	G1374	79.813	94.830	57.951	1.00	30.31	G
ATOM	18480	O	ARG	G1374	80.875	95.324	57.563	1.00	30.31	G
ATOM	18481	N	GLN	G1375	79.060	94.052	57.188	1.00	37.70	G
ATOM	18482	CA	GLN	G1375	79.445	93.747	55.825	1.00	37.70	G
ATOM	18483	CB	GLN	G1375	78.274	93.096	55.107	1.00	49.34	G
ATOM	18484	CG	GLN	G1375	78.090	91.735	55.624	1.		



ATOM	18527	CG2	VAL	G1380	91.381	96.222	56.441	1.00	36.73	G
ATOM	18528	C	VAL	G1380	91.835	98.562	54.289	1.00	45.10	G
ATOM	18529	O	VAL	G1380	92.171	97.615	53.571	1.00	45.10	G
ATOM	18530	N	GLU	G1381	92.374	99.781	54.187	1.00	91.74	G
ATOM	18531	CA	GLU	G1381	93.443	100.077	53.228	1.00	91.74	G
ATOM	18532	CB	GLU	G1381	93.213	101.427	52.534	1.00	66.02	G
ATOM	18533	CG	GLU	G1381	93.954	102.588	53.160	1.00	66.02	G
ATOM	18534	CD	GLU	G1381	93.599	102.772	54.619	1.00	66.02	G
ATOM	18535	OE1	GLU	G1381	92.435	103.120	54.902	1.00	66.02	G
ATOM	18536	OE2	GLU	G1381	94.484	102.561	55.478	1.00	66.02	G
ATOM	18537	C	GLU	G1381	94.786	100.091	53.964	1.00	91.74	G
ATOM	18538	O	GLU	G1381	94.826	99.969	55.189	1.00	91.74	G
ATOM	18539	N	VAL	G1382	95.882	100.266	53.233	1.00	66.97	G
ATOM	18540	CA	VAL	G1382	97.197	100.239	53.868	1.00	66.97	G
ATOM	18541	CB	VAL	G1382	98.120	99.227	53.151	1.00	75.18	G
ATOM	18542	CG1	VAL	G1382	99.539	99.336	53.688	1.00	75.18	G
ATOM	18543	CG2	VAL	G1382	97.593	97.815	53.346	1.00	75.18	G
ATOM	18544	C	VAL	G1382	97.981	101.538	54.016	1.00	66.97	G
ATOM	18545	O	VAL	G1382	97.973	102.402	53.139	1.00	66.97	G
ATOM	18546	N	THR	G1383	98.662	101.645	55.153	1.00	60.93	G
ATOM	18547	CA	THR	G1383	99.532	102.769	55.464	1.00	60.93	G
ATOM	18548	CB	THR	G1383	98.827	103.849	56.307	1.00	37.91	G
ATOM	18549	OG1	THR	G1383	98.010	103.222	57.298	1.00	37.91	G
ATOM	18550	CG2	THR	G1383	97.980	104.760	55.412	1.00	37.91	G
ATOM	18551	C	THR	G1383	100.693	102.150	56.240	1.00	60.93	G
ATOM	18552	O	THR	G1383	100.523	101.678	57.370	1.00	60.93	G
ATOM	18553	N	ASP	G1384	101.863	102.152	55.593	1.00100.07	G	
ATOM	18554	CA	ASP	G1384	103.124	101.574	56.086	1.00100.07	G	
ATOM	18555	CB	ASP	G1384	103.362	101.854	57.576	1.00100.07	G	
ATOM	18556	CG	ASP	G1384	104.814	101.597	57.993	1.00100.07	G	
ATOM	18557	OD1	ASP	G1384	105.416	100.616	57.494	1.00100.07	G	
ATOM	18558	OD2	ASP	G1384	105.348	102.373	58.825	1.00100.07	G	
ATOM	18559	C	ASP	G1384	103.025	100.068	55.861	1.00100.07	G	
ATOM	18560	O	ASP	G1384	102.878	99.288	56.805	1.00100.07	G	
ATOM	18561	N	PRO	G1385	103.091	99.646	54.590	1.00100.07	G	
ATOM	18562	CD	PRO	G1385	103.195	100.529	53.416	1.00100.07	G	
ATOM	18563	CA	PRO	G1385	103.008	98.242	54.175	1.00100.07	G	
ATOM	18564	CB	PRO	G1385	103.099	98.329	52.647	1.00100.07	G	
ATOM	18565	CG	PRO	G1385	103.813	99.621	52.404	1.00100.07	G	
ATOM	18566	C	PRO	G1385	103.994	97.227	54.770	1.00100.07	G	
ATOM	18567	O	PRO	G1385	105.114	97.558	55.159	1.00100.07	G	
ATOM	18568	N	GLY	G1386	103.528	95.984	54.833	1.00100.07	G	



ATOM	18611	CB	GLU	G1392	96.509	102.443	47.649	1.00100.07	G
ATOM	18612	CG	GLU	G1392	95.188	103.112	47.227	1.00100.07	G
ATOM	18613	CD	GLU	G1392	95.229	103.708	45.811	1.00100.07	G
ATOM	18614	OE1	GLU	G1392	95.264	102.933	44.827	1.00100.07	G
ATOM	18615	OE2	GLU	G1392	95.228	104.956	45.682	1.00100.07	G
ATOM	18616	C	GLU	G1392	95.866	100.559	49.188	1.00 99.92	G
ATOM	18617	O	GLU	G1392	95.494	99.963	48.172	1.00 99.92	G
ATOM	18618	N	GLY	G1393	95.735	100.056	50.412	1.00100.07	G
ATOM	18619	CA	GLY	G1393	95.135	98.751	50.615	1.00100.07	G
ATOM	18620	C	GLY	G1393	93.640	98.707	50.356	1.00100.07	G
ATOM	18621	O	GLY	G1393	92.967	99.738	50.351	1.00100.07	G
ATOM	18622	N	GLN	G1394	93.128	97.498	50.142	1.00 99.85	G
ATOM	18623	CA	GLN	G1394	91.710	97.244	49.880	1.00 99.85	G
ATOM	18624	CB	GLN	G1394	91.356	97.647	48.438	1.00100.07	G
ATOM	18625	CG	GLN	G1394	91.198	99.164	48.208	1.00100.07	G
ATOM	18626	CD	GLN	G1394	91.396	99.594	46.744	1.00100.07	G
ATOM	18627	OE1	GLN	G1394	92.519	99.563	46.214	1.00100.07	G
ATOM	18628	NE2	GLN	G1394	90.305	99.997	46.088	1.00100.07	G
ATOM	18629	C	GLN	G1394	91.526	95.736	50.077	1.00 99.85	G
ATOM	18630	O	GLN	G1394	91.261	95.002	49.122	1.00 99.85	G
ATOM	18631	N	VAL	G1395	91.671	95.288	51.326	1.00100.07	G
ATOM	18632	CA	VAL	G1395	91.581	93.866	51.674	1.00100.07	G
ATOM	18633	CB	VAL	G1395	92.961	93.344	52.170	1.00 56.37	G
ATOM	18634	CG1	VAL	G1395	93.057	91.836	51.988	1.00 56.37	G
ATOM	18635	CG2	VAL	G1395	94.083	94.054	51.435	1.00 56.37	G
ATOM	18636	C	VAL	G1395	90.558	93.539	52.766	1.00100.07	G
ATOM	18637	O	VAL	G1395	90.046	94.434	53.446	1.00100.07	G
ATOM	18638	N	LEU	G1396	90.269	92.247	52.924	1.00 76.34	G
ATOM	18639	CA	LEU	G1396	89.342	91.792	53.956	1.00 76.34	G
ATOM	18640	CB	LEU	G1396	89.113	90.277	53.886	1.00100.07	G
ATOM	18641	CG	LEU	G1396	88.165	88.672	52.844	1.00100.07	G
ATOM	18642	CD1	LEU	G1396	87.936	88.194	53.177	1.00100.07	G
ATOM	18643	CD2	LEU	G1396	86.834	90.416	52.850	1.00100.07	G
ATOM	18644	C	LEU	G1396	89.984	92.127	55.290	1.00 76.34	G
ATOM	18645	O	LEU	G1396	91.069	91.637	55.604	1.00 76.34	G
ATOM	18646	N	GLU	G1397	89.309	92.955	56.075	1.00 50.50	G
ATOM	18647	CA	GLU	G1397	89.846	93.369	57.360	1.00 50.50	G
ATOM	18648	CB	GLU	G1397	88.792	94.104	58.167	1.00100.07	G
ATOM	18649	CG	GLU	G1397	89.295	94.541	59.513	1.00100.07	G
ATOM	18650	CD	GLU	G1397	88.190	95.096	60.359	1.00100.07	G
ATOM	18651	OE1	GLU	G1397	87.659	96.169	60.005	1.00100.07	G
ATOM	18652	OE2	GLU	G1397	87.840	94.453	61.370	1.00100.07	G
ATOM	18653	C	GLU	G1397	90.428	92.247	58.203	1.00 50.50	G
ATOM	18654								



ATOM	18695	CB	GLU	G1402	95.680	87.508	59.738	1.00100.07	G
ATOM	18696	CG	GLU	G1402	95.712	86.145	60.391	1.00100.07	G
ATOM	18697	CD	GLU	G1402	95.416	86.209	61.886	1.00100.07	G
ATOM	18698	OE1	GLU	G1402	94.333	86.710	62.273	1.00100.07	G
ATOM	18699	OE2	GLU	G1402	96.277	85.757	62.674	1.00100.07	G
ATOM	18700	C	GLU	G1402	97.486	89.113	60.464	1.00100.07	G
ATOM	18701	O	GLU	G1402	98.439	88.522	60.974	1.00100.07	G
ATOM	18702	N	ALA	G1403	97.626	90.193	59.699	1.00100.07	G
ATOM	18703	CA	ALA	G1403	98.935	90.767	59.406	1.00100.07	G
ATOM	18704	CB	ALA	G1403	98.841	91.732	58.222	1.00 61.84	G
ATOM	18705	C	ALA	G1403	99.451	91.497	60.644	1.00100.07	G
ATOM	18706	O	ALA	G1403	100.153	92.505	60.537	1.00100.07	G
ATOM	18707	N	LEU	G1404	99.073	90.981	61.812	1.00 81.53	G
ATOM	18708	CA	LEU	G1404	99.478	91.516	63.112	1.00 81.53	G
ATOM	18709	CB	LEU	G1404	98.525	92.615	63.587	1.00100.07	G
ATOM	18710	CG	LEU	G1404	98.370	93.892	62.762	1.00100.07	G
ATOM	18711	CD1	LEU	G1404	97.426	94.837	63.485	1.00100.07	G
ATOM	18712	CD2	LEU	G1404	99.714	94.554	62.563	1.00100.07	G
ATOM	18713	C	LEU	G1404	99.377	90.337	64.060	1.00 81.53	G
ATOM	18714	O	LEU	G1404	100.104	90.231	65.053	1.00 81.53	G
ATOM	18715	N	ASN	G1405	98.447	89.450	63.725	1.00100.07	G
ATOM	18716	CA	ASN	G1405	98.210	88.250	64.504	1.00100.07	G
ATOM	18717	CB	ASN	G1405	96.745	87.802	64.376	1.00100.07	G
ATOM	18718	CG	ASN	G1405	95.755	88.970	64.372	1.00100.07	G
ATOM	18719	OD1	ASN	G1405	95.742	89.807	65.284	1.00100.07	G
ATOM	18720	ND2	ASN	G1405	94.909	89.017	63.345	1.00100.07	G
ATOM	18721	C	ASN	G1405	99.135	87.167	63.944	1.00100.07	G
ATOM	18722	O	ASN	G1405	99.217	86.060	64.484	1.00100.07	G
ATOM	18723	N	GLU	G1406	99.827	87.497	62.854	1.00 92.09	G
ATOM	18724	CA	GLU	G1406	100.748	86.555	62.227	1.00 92.09	G
ATOM	18725	CB	GLU	G1406	100.271	86.195	60.820	1.00100.07	G
ATOM	18726	CG	GLU	G1406	101.105	85.099	60.160	1.00100.07	G
ATOM	18727	CD	GLU	G1406	101.235	83.848	61.025	1.00100.07	G
ATOM	18728	OE1	GLU	G1406	101.940	83.895	62.062	1.00100.07	G
ATOM	18729	OE2	GLU	G1406	100.624	82.818	60.662	1.00100.07	G
ATOM	18730	C	GLU	G1406	102.181	87.079	62.161	1.00 92.09	G
ATOM	18731	O	GLU	G1406	103.112	86.330	61.859	1.00 92.09	G
ATOM	18732	N	ARG	G1407	102.354	88.364	62.445	1.00100.07	G
ATOM	18733	CA	ARG	G1407	103.681	88.964	62.429	1.00100.07	G
ATOM	18734	CB	ARG	G1407	103.708	90.155	61.473	1.00100.07	G
ATOM	18735	CG	ARG	G1407	103.663	89.731	60.004	1.00100.07	G
ATOM	18736	CD	ARG	G1407	104.863	88.842	59.659	1.00100.07	G
ATOM	18737	NE	ARG	G1407	104.914	88.470	58.246	1.00100.07	G
ATOM	18738	CZ	ARG	G1407	105.932	87.822	57.685	1.00100.07	G
ATOM	18739	NH1	ARG	G1407	106.982	87.476	58.424	1.00100.07	G
ATOM	18740	NH2	ARG	G1407	105.901	87.520	56.391	1.00100.07	G
ATOM	18741	C	ARG	G1407	104.138	89.369	63.830	1.00100.07	G
ATOM	18742	O	ARG	G1407	105.221	88.967	64.264	1.00100.07	G
ATOM	18743	N	LEU	G1408	103.330	90.159	64.539	1.00100.07	G
ATOM	18744	CA	LEU	G1408	103.696	90.543	65.900	1.00100.07	G
ATOM	18745	CB	LEU	G1408	102.678	91.505	66.517	1.00100.07	G
ATOM	18746	CG	LEU	G1408	102.811	91.709	68.037	1.00100.07	G
ATOM	18747	CD1	LEU	G1408	104.259	91.990	68.421	1.00100.07	G
ATOM	18748	CD2	LEU	G1408	101.918	92.855	68.468	1.00100.07	G
ATOM	18749	C	LEU	G1408	103.688	89.243	66.674	1.00100.07	G
ATOM	18750	O	LEU	G1408	104.516	89.020	67.560	1.00100.07	G
ATOM	18751	N	ILE	G1409	102.733	88.388	66.317	1.00 99.96	G
ATOM	18752	CA	ILE	G1409	102.589	87.079	66.933	1.00 99.96	G
ATOM	18753	CB	ILE	G1409	101.302	86.381	66.454	1.00100.07	G
ATOM	18754	CG2	ILE	G1409	101.324	84.911	66.839	1.00100.07	G
ATOM	18755	CG1	ILE	G1409	100.083	87.074	67.063	1.00100.07	G
ATOM	18756	CD	ILE	G1409	99.986	86.946	68.579	1.00100.07	G
ATOM	18757	C	ILE	G1409	103.792	86.228	66.551	1.00 99.96	G
ATOM	18758	O	ILE	G1409	104.308	85.471	67.375	1.00 99.96	G
ATOM	18759	N	ALA	G1410	104.233	86.356	65.300	1.00 95.47	G
ATOM	18760	CA	ALA	G1410	105.389	85.607	64.818	1.00 95.47	G
ATOM	18761	CB	ALA	G1410	105.555	85.781	63.315	1.00 72.23	G
ATOM	18762	C	ALA	G1410	106.612	86.131	65.546	1.00 95.47	G
ATOM	18763	O	ALA	G1410	107.321	87.007	65.050	1.00 95.47	G
ATOM	18764	N	ALA	G1411	106.832	85.588	66.739	1.00100.07	G
ATOM	18765	CA	ALA	G1411	107.951	85.961	67.595	1.00100.07	G
ATOM	18766	CB	ALA	G1411	109.260	85.417	67.018	1.00100.07	G
ATOM	18767	C	ALA	G1411	108.053	87.467	67.804	1.00100.07	G
ATOM	18768	O	ALA	G1411	107.634	87.982	68.841	1.00100.07	G
ATOM	18769	N	GLY	G1412	108.600	88.169	66.814	1.00100.07	G
ATOM	18770	CA	GLY	G1412	108.769	89.604	66.928	1.00100.07	G
ATOM	18771	C	GLY	G1412	107.683	90.486	66.344	1.00100.07	G
ATOM	18772	O	GLY	G1412	106.761	90.022	65.678	1.00100.07	G
ATOM	18773	N	LYS	G1413	107.819	91.780	66.620	1.00100.07	G
ATOM	18774	CA	LYS	G1413	106.907	92.820	66.158	1.00100.07	G
ATOM	18775	CB	LYS	G1413	106.920	93.977	67.166	1.00100.07	G
ATOM	18776	CG	LYS	G1413	106.032	95.144	66.795	1.00100.07	G
ATOM	18777	CD	LYS	G1413	106.488	96.445	67.447	1.00100.07	G
ATOM	18778	CE	LYS	G1413	105.713	97.634	66.865	1.00100.07	G



ATOM	18779	NZ	LYS	G1413	106.197	98.960	67.353	1.00100.07	G
ATOM	18780	C	LYS	G1413	107.393	93.308	64.785	1.00100.07	G
ATOM	18781	O	LYS	G1413	108.461	92.901	64.328	1.00100.07	G
ATOM	18782	N	VAL	G1414	106.611	94.180	64.144	1.00100.07	G
ATOM	18783	CA	VAL	G1414	106.930	94.748	62.822	1.00100.07	G
ATOM	18784	CB	VAL	G1414	106.851	93.644	61.688	1.00100.07	G
ATOM	18785	CG1	VAL	G1414	106.821	94.293	60.295	1.00100.07	G
ATOM	18786	CG2	VAL	G1414	108.051	92.693	61.774	1.00100.07	G
ATOM	18787	C	VAL	G1414	105.959	95.906	62.473	1.00100.07	G
ATOM	18788	O	VAL	G1414	104.793	95.908	62.893	1.00100.07	G
ATOM	18789	N	PRO	G1415	106.432	96.908	61.704	1.00100.07	G
ATOM	18790	CD	PRO	G1415	107.828	97.136	61.284	1.00100.07	G
ATOM	18791	CA	PRO	G1415	105.589	98.048	61.317	1.00100.07	G
ATOM	18792	CB	PRO	G1415	106.608	99.064	60.790	1.00100.07	G
ATOM	18793	CG	PRO	G1415	107.672	98.200	60.211	1.00100.07	G
ATOM	18794	C	PRO	G1415	104.488	97.740	60.286	1.00100.07	G
ATOM	18795	O	PRO	G1415	104.772	97.522	59.102	1.00100.07	G
ATOM	18796	N	VAL	G1416	103.236	97.733	60.748	1.00100.07	G
ATOM	18797	CA	VAL	G1416	102.068	97.473	59.896	1.00100.07	G
ATOM	18798	CB	VAL	G1416	101.742	95.950	59.817	1.00100.07	G
ATOM	18799	CG1	VAL	G1416	100.493	95.722	58.953	1.00100.07	G
ATOM	18800	CG2	VAL	G1416	102.941	95.178	59.255	1.00100.07	G
ATOM	18801	C	VAL	G1416	100.846	98.201	60.480	1.00100.07	G
ATOM	18802	O	VAL	G1416	100.812	98.480	61.683	1.00100.07	G
ATOM	18803	N	ALA	G1417	99.854	98.510	59.641	1.00100.07	G
ATOM	18804	CA	ALA	G1417	98.642	99.196	60.107	1.00100.07	G
ATOM	18805	CB	ALA	G1417	99.009	100.489	60.848	1.00100.07	G
ATOM	18806	C	ALA	G1417	97.679	99.506	58.964	1.00100.07	G
ATOM	18807	O	ALA	G1417	97.903	99.080	57.829	1.00100.07	G
ATOM	18808	N	TRP	G1418	96.617	100.261	59.265	1.00 99.08	G
ATOM	18809	CA	TRP	G1418	95.603	100.612	58.265	1.00 99.08	G
ATOM	18810	CB	TRP	G1418	94.711	99.396	58.000	1.00 99.71	G
ATOM	18811	CG	TRP	G1418	94.138	98.796	59.259	1.00 99.71	G
ATOM	18812	CD2	TRP	G1418	94.313	97.454	59.725	1.00 99.71	G
ATOM	18813	CE2	TRP	G1418	93.648	97.348	60.965	1.00 99.71	G
ATOM	18814	CE3	TRP	G1418	94.973	96.327	59.214	1.00 99.71	G
ATOM	18815	CD1	TRP	G1418	93.385	99.432	60.208	1.00 99.71	G
ATOM	18816	NE1	TRP	G1418	93.089	98.572	61.237	1.00 99.71	G
ATOM	18817	CZ2	TRP	G1418	93.621	96.160	61.704	1.00 99.71	G
ATOM	18818	CZ3	TRP	G1418	94.946	95.147	59.947	1.00 99.71	G
ATOM	18819	CH2	TRP	G1418	94.276	95.074	61.178	1.00 99.71	G
ATOM	18820	C	TRP	G1418	94.704	101.803	58.632	1.00 99.08	G
ATOM	18821	O	TRP	G1418	95.119	102.744	59.313	1.00 99.08	G
ATOM	18822	N	LYS	G1419	93.461	101.725	58.158	1.00 79.53	G
ATOM	18823	CA	LYS	G1419	92.419	102.729	58.375	1.00 79.53	G
ATOM	18824	CB	LYS	G1419	92.688	103.965	57.517	1.00100.07	G
ATOM	18825	CG	LYS	G1419	91.460	104.813	57.246	1.00100.07	G
ATOM	18826	CD	LYS	G1419	91.655	105.664	56.007	1.00100.07	G
ATOM	18827	CE	LYS	G1419	90.355	106.315	55.574	1.00100.07	G
ATOM	18828	NZ	LYS	G1419	90.509	106.958	54.242	1.00100.07	G
ATOM	18829	C	LYS	G1419	91.081	102.105	57.972	1.00 79.53	G
ATOM	18830	O	LYS	G1419	91.040	101.144	57.207	1.00 79.53	G
ATOM	18831	N	PRO	G1420	89.966	102.637	58.483	1.00 51.68	G
ATOM	18832	CD	PRO	G1420	89.782	103.568	59.610	1.00100.07	G
ATOM	18833	CA	PRO	G1420	88.690	102.037	58.097	1.00 51.68	G
ATOM	18834	CB	PRO	G1420	87.812	102.317	59.307	1.00100.07	G
ATOM	18835	CG	PRO	G1420	88.265	103.685	59.696	1.00100.07	G
ATOM	18836	C	PRO	G1420	88.108	102.629	56.820	1.00 51.68	G
ATOM	18837	O	PRO	G1420	87.845	103.834	56.743	1.00 51.68	G
ATOM	18838	N	LEU	G1421	87.915	101.773	55.820	1.00 45.79	G
ATOM	18839	CA	LEU	G1421	87.339	102.202	54.552	1.00 45.79	G
ATOM	18840	CB	LEU	G1421	88.038	101.506	53.379	1.00100.07	G
ATOM	18841	CG	LEU	G1421	87.504	101.791	51.965	1.00100.07	G
ATOM	18842	CD1	LEU	G1421	87.371	103.295	51.712	1.00100.07	G
ATOM	18843	CD2	LEU	G1421	88.443	101.150	50.945	1.00100.07	G
ATOM	18844	C	LEU	G1421	85.846	101.871	54.554	1.00 45.79	G
ATOM	18845	O	LEU	G1421	85.435	100.815	55.041	1.00 45.79	G
ATOM	18846	N	LEU	G1422	85.035	102.775	54.009	1.00 91.08	G
ATOM	18847	CA	LEU	G1422	83.591	102.575	53.979	1.00 91.08	G
ATOM	18848	CB	LEU	G1422	82.875	103.802	54.526	1.00 37.74	G
ATOM	18849	CG	LEU	G1422	81.391	103.543	54.736	1.00 37.74	G
ATOM	18850	CD1	LEU	G1422	81.260	102.460	55.809	1.00 37.74	G
ATOM	18851	CD2	LEU	G1422	80.673	104.826	55.141	1.00 37.74	G
ATOM	18852	C	LEU	G1422	83.015	102.266	52.607	1.00 91.08	G
ATOM	18853	O	LEU	G1422	83.001	103.119	51.720	1.00 91.08	G
ATOM	18854	N	MET	G1423	82.522	101.043	52.449	1.00 99.96	G
ATOM	18855	CA	MET	G1423	81.919	100.607	51.200	1.00 99.96	G
ATOM	18856	CB	MET	G1423	82.058	99.090	51.047	1.00 55.09	G
ATOM	18857	CG	MET	G1423	83.494	98.584	50.990	1.00 55.09	G
ATOM	18858	SD	MET	G1423	84.322	98.791	49.384	1.00 55.09	G
ATOM	18859	CE	MET	G1423	85.184	97.230	49.250	1.00 55.09	G
ATOM	18860	C	MET	G1423	80.443	100.982	51.254	1.00 99.96	G
ATOM	18861	O	MET	G1423	79.980	101.554	52.240	1.00 99.96	G
ATOM	18862	N	GLY	G1424	79.714	100.664	50.189	1.00 40.36	G



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ATOM	18863	CA	GLY	G1424	78.292	100.949	50.133	1.00	40.36	G
ATOM	18864	C	GLY	G1424	77.622	99.681	49.653	1.00	40.36	G
ATOM	18865	O	GLY	G1424	77.361	99.531	48.450	1.00	40.36	G
ATOM	18866	N	VAL	G1425	77.348	98.778	50.602	1.00	27.66	G
ATOM	18867	CA	VAL	G1425	76.746	97.474	50.319	1.00	27.66	G
ATOM	18868	CB	VAL	G1425	75.197	97.536	50.408	1.00	71.14	G
ATOM	18869	CG1	VAL	G1425	74.645	98.546	49.438	1.00	71.14	G
ATOM	18870	CG2	VAL	G1425	74.611	96.176	50.163	1.00	71.14	G
ATOM	18871	C	VAL	G1425	77.234	97.015	48.934	1.00	27.66	G
ATOM	18872	O	VAL	G1425	78.266	96.347	48.836	1.00	27.66	G
ATOM	18873	N	THR	G1426	76.513	97.393	47.880	1.00	31.35	G
ATOM	18874	CA	THR	G1426	76.883	97.063	46.508	1.00	31.35	G
ATOM	18875	CB	THR	G1426	76.714	98.278	45.601	1.00	50.61	G
ATOM	18876	OG1	THR	G1426	75.341	98.663	45.566	1.00	50.61	G
ATOM	18877	CG2	THR	G1426	77.170	97.963	44.214	1.00	50.61	G
ATOM	18878	C	THR	G1426	78.336	96.629	46.408	1.00	31.35	G
ATOM	18879	O	THR	G1426	78.653	95.442	46.511	1.00	31.35	G
ATOM	18880	N	LYS	G1427	79.214	97.610	46.221	1.00	37.37	G
ATOM	18881	CA	LYS	G1427	80.647	97.375	46.102	1.00	37.37	G
ATOM	18882	CB	LYS	G1427	81.409	98.661	46.416	1.00	100.07	G
ATOM	18883	CG	LYS	G1427	80.968	99.807	45.530	1.00	100.07	G
ATOM	18884	CD	LYS	G1427	81.729	101.100	45.772	1.00	100.07	G
ATOM	18885	CE	LYS	G1427	81.308	102.155	44.737	1.00	100.07	G
ATOM	18886	NZ	LYS	G1427	82.068	103.436	44.836	1.00	100.07	G
ATOM	18887	C	LYS	G1427	81.156	96.247	46.981	1.00	37.37	G
ATOM	18888	O	LYS	G1427	81.533	95.200	46.475	1.00	37.37	G
ATOM	18889	N	SER	G1428	81.157	96.444	48.293	1.00	32.56	G
ATOM	18890	CA	SER	G1428	81.650	95.412	49.200	1.00	32.56	G
ATOM	18891	CB	SER	G1428	81.004	95.545	50.575	1.00	43.88	G
ATOM	18892	OG	SER	G1428	81.457	94.518	51.442	1.00	43.88	G
ATOM	18893	C	SER	G1428	81.405	94.009	48.662	1.00	32.56	G
ATOM	18894	O	SER	G1428	82.312	93.176	48.634	1.00	32.56	G
ATOM	18895	N	ALA	G1429	80.178	93.744	48.237	1.00	41.87	G
ATOM	18896	CA	ALA	G1429	79.863	92.439	47.694	1.00	41.87	G
ATOM	18897	CB	ALA	G1429	78.408	92.349	47.390	1.00	16.83	G
ATOM	18898	C	ALA	G1429	80.653	92.299	46.416	1.00	41.87	G
ATOM	18899	O	ALA	G1429	81.434	91.367	46.254	1.00	41.87	G
ATOM	18900	N	LEU	G1430	80.435	93.256	45.521	1.00	64.11	G
ATOM	18901	CA	LEU	G1430	81.071	93.310	44.209	1.00	64.11	G
ATOM	18902	CB	LEU	G1430	80.535	94.516	43.432	1.00	69.44	G
ATOM	18903	CG	LEU	G1430	81.144	94.800	42.061	1.00	69.44	G
ATOM	18904	CD1	LEU	G1430	81.321	93.507	41.300	1.00	69.44	G
ATOM	18905	CD2	LEU	G1430	80.249	95.754	41.290	1.00	69.44	G
ATOM	18906	C	LEU	G1430	82.593	93.353	44.214	1.00	64.11	G
ATOM	18907	O	LEU	G1430	83.240	92.671	43.421	1.00	64.11	G
ATOM	18908	N	SER	G1431	83.169	94.162	45.091	1.00	61.48	G
ATOM	18909	CA	SER	G1431	84.615	94.263	45.159	1.00	61.48	G
ATOM	18910	CB	SER	G1431	85.025	95.349	46.145	1.00	46.46	G
ATOM	18911	OG	SER	G1431	84.714	94.949	47.464	1.00	46.46	G
ATOM	18912	C	SER	G1431	85.186	92.927	45.608	1.00	61.48	G
ATOM	18913	O	SER	G1431	85.274	91.980	44.821	1.00	61.48	G
ATOM	18914	N	THR	G1432	85.566	92.851	46.879	1.00	74.93	G
ATOM	18915	CA	THR	G1432	86.136	91.632	47.432	1.00	74.93	G
ATOM	18916	CB	THR	G1432	86.409	91.766	48.930	1.00	100.07	G
ATOM	18917	OG1	THR	G1432	85.213	92.184	49.596	1.00	100.07	G
ATOM	18918	CG2	THR	G1432	87.520	92.765	49.175	1.00	100.07	G
ATOM	18919	C	THR	G1432	85.200	90.468	47.243	1.00	74.93	G
ATOM	18920	O	THR	G1432	84.019	90.651	46.956	1.00	74.93	G
ATOM	18921	N	LYS	G1433	85.736	89.270	47.421	1.00	63.33	G
ATOM	18922	CA	LYS	G1433	84.944	88.065	47.272	1.00	63.33	G
ATOM	18923	CB	LYS	G1433	83.938	88.250	46.131	1.00	72.24	G
ATOM	18924	CG	LYS	G1433	82.521	87.823	46.451	1.00	72.24	G
ATOM	18925	CD	LYS	G1433	81.964	88.505	47.679	1.00	72.24	G
ATOM	18926	CE	LYS	G1433	80.549	88.024	47.929	1.00	72.24	G
ATOM	18927	NZ	LYS	G1433	80.035	88.445	49.254	1.00	72.24	G
ATOM	18928	C	LYS	G1433	85.861	86.871	46.982	1.00	63.33	G
ATOM	18929	O	LYS	G1433	87.076	86.910	47.269	1.00	63.33	G
ATOM	18930	N	SER	G1434	85.278	85.817	46.406	1.00	61.50	G
ATOM	18931	CA	SER	G1434	86.028	84.615	46.097	1.00	61.50	G
ATOM	18932	CB	SER	G1434	85.542	83.445	46.960	1.00	32.04	G
ATOM	18933	OG	SER	G1434	84.715	82.550	46.233	1.00	32.04	G
ATOM	18934	C	SER	G1434	85.928	84.237	44.638	1.00	61.50	G
ATOM	18935	O	SER	G1434	85.243	83.284	44.290	1.00	61.50	G
ATOM	18936	N	TRP	G1435	86.619	84.997	43.794	1.00	64.00	G
ATOM	18937	CA	TRP	G1435	86.670	84.757	42.351	1.00	64.00	G
ATOM	18938	CB	TRP	G1435	87.920	83.885	42.053	1.00	26.78	G
ATOM	18939	CG	TRP	G1435	87.749	82.713	41.139	1.00	26.78	G
ATOM	18940	CD2	TRP	G1435	88.137	81.366	41.401	1.00	26.78	G
ATOM	18941	CE2	TRP	G1435	87.761	80.594	40.277	1.00	26.78	G
ATOM	18942	CE3	TRP	G1435	88.762	80.733	42.474	1.00	26.78	G
ATOM	18943	CD1	TRP	G1435	87.177	82.710	39.895	1.00	26.78	G
ATOM	18944	NE1	TRP	G1435	87.178	81.438	39.373	1.00	26.78	G
ATOM	18945	CZ2	TRP	G1435	87.987	79.221	40.202	1.00	26.78	G
ATOM	18946	CZ3	TRP	G1435	88.986	79.365	42.395	1.00	26.78	G



ATOM	18947	CH2	TRP	G1435	88.597	78.626	41.265	1.00	26.78	G
ATOM	18948	C	TRP	G1435	85.379	84.163	41.757	1.00	64.00	G
ATOM	18949	O	TRP	G1435	84.683	84.813	40.963	1.00	64.00	G
ATOM	18950	N	LEU	G1436	85.069	82.936	42.162	1.00	51.15	G
ATOM	18951	CA	LEU	G1436	83.896	82.208	41.715	1.00	51.15	G
ATOM	18952	CB	LEU	G1436	83.832	80.888	42.468	1.00	25.14	G
ATOM	18953	CG	LEU	G1436	83.669	79.712	41.509	1.00	25.14	G
ATOM	18954	CD1	LEU	G1436	84.624	79.867	40.321	1.00	25.14	G
ATOM	18955	CD2	LEU	G1436	83.908	78.399	42.262	1.00	25.14	G
ATOM	18956	C	LEU	G1436	82.551	82.924	41.840	1.00	51.15	G
ATOM	18957	O	LEU	G1436	81.558	82.475	41.273	1.00	51.15	G
ATOM	18958	N	SER	G1437	82.501	84.026	42.578	1.00	51.83	G
ATOM	18959	CA	SER	G1437	81.246	84.744	42.744	1.00	51.83	G
ATOM	18960	CB	SER	G1437	80.902	84.910	44.232	1.00100.07	G	
ATOM	18961	OG	SER	G1437	81.993	85.414	44.975	1.00100.07	G	
ATOM	18962	C	SER	G1437	81.276	86.084	42.052	1.00	51.83	G
ATOM	18963	O	SER	G1437	80.369	86.402	41.299	1.00	51.83	G
ATOM	18964	N	ALA	G1438	82.319	86.868	42.292	1.00	19.91	G
ATOM	18965	CA	ALA	G1438	82.440	88.175	41.646	1.00	19.91	G
ATOM	18966	CB	ALA	G1438	83.667	88.908	42.144	1.00	57.16	G
ATOM	18967	C	ALA	G1438	82.578	87.895	40.167	1.00	19.91	G
ATOM	18968	O	ALA	G1438	82.561	88.809	39.335	1.00	19.91	G
ATOM	18969	N	ALA	G1439	82.721	86.603	39.878	1.00	35.11	G
ATOM	18970	CA	ALA	G1439	82.866	86.066	38.530	1.00	35.11	G
ATOM	18971	CB	ALA	G1439	83.073	84.558	38.602	1.00	23.40	G
ATOM	18972	C	ALA	G1439	81.658	86.357	37.663	1.00	35.11	G
ATOM	18973	O	ALA	G1439	81.775	86.473	36.448	1.00	35.11	G
ATOM	18974	N	SER	G1440	80.495	86.454	38.297	1.00	31.18	G
ATOM	18975	CA	SER	G1440	79.255	86.709	37.586	1.00	31.18	G
ATOM	18976	CB	SER	G1440	78.080	86.224	38.403	1.00	29.41	G
ATOM	18977	OG	SER	G1440	78.181	86.738	39.708	1.00	29.41	G
ATOM	18978	C	SER	G1440	79.100	88.175	37.315	1.00	31.18	G
ATOM	18979	O	SER	G1440	78.817	88.573	36.187	1.00	31.18	G
ATOM	18980	N	PHE	G1441	79.292	88.981	38.349	1.00	51.22	G
ATOM	18981	CA	PHE	G1441	79.176	90.421	38.203	1.00	51.22	G
ATOM	18982	CB	PHE	G1441	79.901	91.130	39.342	1.00	81.19	G
ATOM	18983	CG	PHE	G1441	79.230	90.968	40.670	1.00	81.19	G
ATOM	18984	CD1	PHE	G1441	79.455	89.838	41.444	1.00	81.19	G
ATOM	18985	CD2	PHE	G1441	78.345	91.933	41.132	1.00	81.19	G
ATOM	18986	CE1	PHE	G1441	78.807	89.671	42.657	1.00	81.19	G
ATOM	18987	CE2	PHE	G1441	77.694	91.774	42.339	1.00	81.19	G
ATOM	18988	CZ	PHE	G1441	77.925	90.640	43.105	1.00	8	



ATOM	19031	O	HIS	G1446	89.501	89.475	36.090	1.00	47.46	G
ATOM	19032	N	VAL	G1447	87.277	89.722	36.232	1.00	63.52	G
ATOM	19033	CA	VAL	G1447	87.209	89.030	37.514	1.00	63.52	G
ATOM	19034	CB	VAL	G1447	85.756	88.898	38.038	1.00	99.79	G
ATOM	19035	CG1	VAL	G1447	85.749	88.167	39.379	1.00	99.79	G
ATOM	19036	CG2	VAL	G1447	85.126	90.271	38.196	1.00	99.79	G
ATOM	19037	C	VAL	G1447	87.764	87.630	37.299	1.00	63.52	G
ATOM	19038	O	VAL	G1447	88.009	86.887	38.251	1.00	63.52	G
ATOM	19039	N	LEU	G1448	87.964	87.281	36.033	1.00	89.61	G
ATOM	19040	CA	LEU	G1448	88.479	85.973	35.678	1.00	89.61	G
ATOM	19041	CB	LEU	G1448	87.777	85.475	34.412	1.00	45.68	G
ATOM	19042	CG	LEU	G1448	87.073	84.122	34.585	1.00	45.68	G
ATOM	19043	CD1	LEU	G1448	86.575	83.988	36.023	1.00	45.68	G
ATOM	19044	CD2	LEU	G1448	85.922	83.980	33.593	1.00	45.68	G
ATOM	19045	C	LEU	G1448	89.987	85.982	35.483	1.00	89.61	G
ATOM	19046	O	LEU	G1448	90.714	85.288	36.195	1.00	89.61	G
ATOM	19047	N	THR	G1449	90.450	86.771	34.519	1.00	52.05	G
ATOM	19048	CA	THR	G1449	91.877	86.877	34.223	1.00	52.05	G
ATOM	19049	CB	THR	G1449	92.137	88.050	33.277	1.00	22.15	G
ATOM	19050	OG1	THR	G1449	91.815	87.649	31.941	1.00	22.15	G
ATOM	19051	CG2	THR	G1449	93.585	88.500	33.351	1.00	22.15	G
ATOM	19052	C	THR	G1449	92.741	87.048	35.466	1.00	52.05	G
ATOM	19053	O	THR	G1449	93.483	86.146	35.853	1.00	52.05	G
ATOM	19054	N	GLU	G1450	92.640	88.221	36.075	1.00	92.41	G
ATOM	19055	CA	GLU	G1450	93.392	88.549	37.271	1.00	92.41	G
ATOM	19056	CB	GLU	G1450	92.710	89.717	37.973	1.00	100.07	G
ATOM	19057	CG	GLU	G1450	93.553	90.443	38.987	1.00	100.07	G
ATOM	19058	CD	GLU	G1450	92.817	91.635	39.566	1.00	100.07	G
ATOM	19059	OE1	GLU	G1450	92.317	92.457	38.770	1.00	100.07	G
ATOM	19060	OE2	GLU	G1450	92.739	91.755	40.809	1.00	100.07	G
ATOM	19061	C	GLU	G1450	93.446	87.333	38.192	1.00	92.41	G
ATOM	19062	O	GLU	G1450	94.466	87.068	38.827	1.00	92.41	G
ATOM	19063	N	ALA	G1451	92.344	86.590	38.248	1.00	52.37	G
ATOM	19064	CA	ALA	G1451	92.264	85.400	39.090	1.00	52.37	G
ATOM	19065	CB	ALA	G1451	90.887	84.775	38.981	1.00	52.68	G
ATOM	19066	C	ALA	G1451	93.311	84.404	38.649	1.00	52.37	G
ATOM	19067	O	ALA	G1451	94.072	83.887	39.462	1.00	52.37	G
ATOM	19068	N	ALA	G1452	93.334	84.141	37.347	1.00	100.07	G
ATOM	19069	CA	ALA	G1452	94.281	83.209	36.756	1.00	100.07	G
ATOM	19070	CB	ALA	G1452	94.072	83.152	35.257	1.00	98.47	G
ATOM	19071	C	ALA	G1452	95.722	83.604	37.069	1.00	100.07	G
ATOM	19072	O	ALA	G1452	96.505	82.778	37.539	1.00	100.07	G
ATOM	19073	N	ILE	G1453	96.067	84.862	36.800	1.00	68.55	G
ATOM	19074	CA	ILE	G1453	97.412	85.360	37.065	1.00	68.55	G
ATOM	19075	CB	ILE	G1453	97.456	86.915	37.067	1.00	60.83	G
ATOM	19076	CG2	ILE	G1453	98.052	87.445	38.369	1.00	60.83	G
ATOM	19077	CG1	ILE	G1453	98.288	87.416	35.889	1.00	60.83	G
ATOM	19078	CD	ILE	G1453	97.474	87.776	34.683	1.00	60.83	G
ATOM	19079	C	ILE	G1453	97.930	84.839	38.407	1.00	68.55	G
ATOM	19080	O	ILE	G1453	98.951	84.159	38.454	1.00	68.55	G
ATOM	19081	N	ALA	G1454	97.236	85.146	39.499	1.00	38.49	G
ATOM	19082	CA	ALA	G1454	97.692	84.673	40.797	1.00	38.49	G
ATOM	19083	CB	ALA	G1454	97.155	85.567	41.907	1.00	65.03	G
ATOM	19084	C	ALA	G1454	97.256	83.224	41.018	1.00	38.49	G
ATOM	19085	O	ALA	G1454	96.528	82.648	40.192	1.00	38.49	G
ATOM	19086	N	GLY	G1455	97.719	82.635	42.122	1.00	58.71	G
ATOM	19087	CA	GLY	G1455	97.364	81.262	42.437	1.00	58.71	G
ATOM	19088	C	GLY	G1455	95.856	81.160	42.416	1.00	58.71	G
ATOM	19089	O	GLY	G1455	95.300	80.124	42.053	1.00	58.71	G
ATOM	19090	N	ALA	G1456	95.211	82.264	42.800	1.00	33.60	G
ATOM	19091	CA	ALA	G1456	93.757	82.388	42.841	1.00	33.60	G
ATOM	19092	CB	ALA	G1456	93.142	81.836	41.554	1.00	100.07	G
ATOM	19093	C	ALA	G1456	93.187	81.669	44.054	1.00	33.60	G
ATOM	19094	O	ALA	G1456	92.983	80.453	44.036	1.00	33.60	G
ATOM	19095	N	ALA	G1457	92.927	82.443	45.103	1.00	100.07	G
ATOM	19096	CA	ALA	G1457	92.394	81.929	46.363	1.00	100.07	G
ATOM	19097	CB	ALA	G1457	92.020	83.099	47.273	1.00	100.07	G
ATOM	19098	C	ALA	G1457	91.207	80.977	46.226	1.00	100.07	G
ATOM	19099	O	ALA	G1457	90.171	81.176	46.862	1.00	100.07	G
ATOM	19100	N	ALA	G1458	91.384	79.946	45.406	1.00	63.71	G
ATOM	19101	CA	ALA	G1458	90.390	78.911	45.143	1.00	63.71	G
ATOM	19102	CB	ALA	G1458	90.823	77.625	45.831	1.00	100.07	G
ATOM	19103	C	ALA	G1458	88.930	79.201	45.495	1.00	63.71	G
ATOM	19104	O	ALA	G1458	88.146	78.269	45.705	1.00	63.71	G
ATOM	19105	N	ALA	G1459	88.547	80.473	45.536	1.00	100.06	G
ATOM	19106	CA	ALA	G1459	87.183	80.833	45.908	1.00	100.06	G
ATOM	19107	CB	ALA	G1459	86.186	80.331	44.871	1.00	88.02	G
ATOM	19108	C	ALA	G1459	86.914	80.171	47.247	1.00	100.06	G
ATOM	19109	O	ALA	G1459	85.842	80.340	47.831	1.00	100.06	G
ATOM	19110	N	ALA	G1460	87.907	79.414	47.714	1.00	36.14	G
ATOM	19111	CA	ALA	G1460	87.846	78.676	48.972	1.00	36.14	G
ATOM	19112	CB	ALA	G1460	88.012	79.636	50.167	1.00	20.99	G
ATOM	19113	C	ALA	G1460	86.509	77.974	49.056	1.00	36.14	G
ATOM	19114	O	ALA	G1460	86.173	77.381	50.087	1.00	36.14	G



ATOM	19115	N	ALA	G1461	85.768	78.036	47.949	1.00	36.70	G
ATOM	19116	CA	ALA	G1461	84.437	77.480	47.876	1.00	36.70	G
ATOM	19117	CB	ALA	G1461	84.492	76.018	47.512	1.00	5.07	G
ATOM	19118	C	ALA	G1461	83.897	77.683	49.282	1.00	36.70	G
ATOM	19119	O	ALA	G1461	83.163	76.853	49.810	1.00	36.70	G
ATOM	19120	N	ALA	G1462	84.295	78.805	49.881	1.00	56.37	G
ATOM	19121	CA	ALA	G1462	83.898	79.158	51.232	1.00	56.37	G
ATOM	19122	CB	ALA	G1462	84.701	80.357	51.716	1.00	77.87	G
ATOM	19123	C	ALA	G1462	82.417	79.475	51.273	1.00	56.37	G
ATOM	19124	O	ALA	G1462	81.581	78.590	51.416	1.00	56.37	G
ATOM	19125	N	ALA	G1463	82.083	80.745	51.148	1.00	62.00	G
ATOM	19126	CA	ALA	G1463	80.688	81.114	51.170	1.00	62.00	G
ATOM	19127	CB	ALA	G1463	80.483	82.267	52.104	1.00	100.07	G
ATOM	19128	C	ALA	G1463	80.222	81.474	49.768	1.00	62.00	G
ATOM	19129	O	ALA	G1463	79.056	81.234	49.435	1.00	62.00	G
ATOM	19130	N	ALA	G1464	81.143	82.018	48.954	1.00	54.01	G
ATOM	19131	CA	ALA	G1464	80.875	82.449	47.564	1.00	54.01	G
ATOM	19132	CB	ALA	G1464	82.170	82.688	46.839	1.00	35.57	G
ATOM	19133	C	ALA	G1464	79.992	81.514	46.732	1.00	54.01	G
ATOM	19134	O	ALA	G1464	80.483	80.658	45.988	1.00	54.01	G
ATOM	19135	N	ALA	G1465	78.682	81.721	46.875	1.00	55.92	G
ATOM	19136	CA	ALA	G1465	77.657	80.959	46.197	1.00	55.92	G
ATOM	19137	CB	ALA	G1465	76.993	81.823	45.142	1.00	5.07	G
ATOM	19138	C	ALA	G1465	78.212	79.690	45.579	1.00	55.92	G
ATOM	19139	O	ALA	G1465	78.513	79.643	44.388	1.00	55.92	G
ATOM	19140	N	ALA	G1466	78.372	78.669	46.415	1.00	48.53	G
ATOM	19141	CA	ALA	G1466	78.849	77.370	45.961	1.00	48.53	G
ATOM	19142	CB	ALA	G1466	78.959	76.398	47.132	1.00	17.91	G
ATOM	19143	C	ALA	G1466	77.763	76.916	45.008	1.00	48.53	G
ATOM	19144	O	ALA	G1466	77.871	75.884	44.357	1.00	48.53	G
ATOM	19145	N	ALA	G1467	76.691	77.701	44.969	1.00	49.21	G
ATOM	19146	CA	ALA	G1467	75.576	77.437	44.082	1.00	49.21	G
ATOM	19147	CB	ALA	G1467	74.387	78.403	44.388	1.00	5.07	G
ATOM	19148	C	ALA	G1467	76.154	77.697	42.696	1.00	49.21	G
ATOM	19149	O	ALA	G1467	75.820	77.011	41.733	1.00	49.21	G
ATOM	19150	N	ALA	G1468	77.047	78.678	42.609	1.00	39.31	G
ATOM	19151	CA	ALA	G1468	77.659	79.000	41.333	1.00	39.31	G
ATOM	19152	CB	ALA	G1468	78.860	79.932	41.523	1.00	5.07	G
ATOM	19153	C	ALA	G1468	78.098	77.672	40.736	1.00	39.31	G
ATOM	19154	O	ALA	G1468	77.861	77.400	39.559	1.00	39.31	G
ATOM	19155	N	ALA	G1469	78.710	76.832	41.567	1.00	33.40	G
ATOM	19156	CA	ALA	G1469	79.182	75.519	41.129	1.00	33.40	G
ATOM	19157	CB	ALA	G1469	80.513	75.159	41.855	1.00	5.07	G
ATOM	19158	C	ALA	G1469	78.102	74.482	41.429	1.00	33.40	G
ATOM	19159	O	ALA	G1469	78.143	73.350	40.958	1.00	33.40	G
ATOM	19160	N	ALA	G1470	77.128	74.895	42.224	1.00	22.80	G
ATOM	19161	CA	ALA	G1470	76.030	74.030	42.610	1.00	22.80	G
ATOM	19162	CB	ALA	G1470	75.425	73.382	41.369	1.00	27.52	G
ATOM	19163	C	ALA	G1470	76.426	72.962	43.631	1.00	22.80	G
ATOM	19164	O	ALA	G1470	76.241	71.773	43.397	1.00	22.80	G
ATOM	19165	N	ALA	G1471	76.969	73.383	44.764	1.00	50.20	G
ATOM	19166	CA	ALA	G1471	77.356	72.430	45.796	1.00	50.20	G
ATOM	19167	CB	ALA	G1471	78.750	72.764	46.318	1.00	14.43	G
ATOM	19168	C	ALA	G1471	76.313	72.508	46.918	1.00	50.20	G
ATOM	19169	O	ALA	G1471	75.236	73.069	46.705	1.00	50.20	G
ATOM	19170	N	ALA	G1472	76.609	71.935	48.089	1.00	57.44	G
ATOM	19171	CA	ALA	G1472	75.677	71.972	49.224	1.00	57.44	G
ATOM	19172	CB	ALA	G1472	75.747	70.655	50.043	1.00	5.07	G
ATOM	19173	C	ALA	G1472	76.024	73.170	50.110	1.00	57.44	G
ATOM	19174	O	ALA	G1472	77.106	73.231	50.689	1.00	57.44	G
ATOM	19175	N	ALA	G1473	75.094	74.118	50.203	1.00	69.19	G
ATOM	19176	CA	ALA	G1473	75.257	75.347	50.985	1.00	69.19	G
ATOM	19177	CB	ALA	G1473	73.945	76.131	50.946	1.00	5.07	G
ATOM	19178	C	ALA	G1473	75.726	75.158	52.443	1.00	69.19	G
ATOM	19179	O	ALA	G1473	76.029	74.042	52.868	1.00	69.19	G
ATOM	19180	N	ALA	G1474	75.787	76.260	53.197	1.00	43.69	G
ATOM	19181	CA	ALA	G1474	76.214	76.250	54.604	1.00	43.69	G
ATOM	19182	CB	ALA	G1474	76.291	77.664	55.144	1.00	6.14	G
ATOM	19183	C	ALA	G1474	75.376	75.403	55.566	1.00	43.69	G
ATOM	19184	O	ALA	G1474	74.280	75.801	55.998	1.00	43.69	G
ATOM	19185	N	ALA	G1475	75.949	74.243	55.896	1.00	99.97	G
ATOM	19186	CA	ALA	G1475	75.429	73.222	56.817	1.00	99.97	G
ATOM	19187	CB	ALA	G1475	74.459	72.253	56.074	1.00	14.46	G
ATOM	19188	C	ALA	G1475	76.734	72.496	57.176	1.00	99.97	G
ATOM	19189	O	ALA	G1475	77.151	71.618	56.432	1.00	99.97	G
ATOM	19190	N	ALA	G1476	77.387	72.845	58.289	1.00	23.44	G
ATOM	19191	CA	ALA	G1476	78.680	72.205	58.602	1.00	23.44	G
ATOM	19192	CB	ALA	G1476	79.812	73.117	58.124	1.00	100.07	G
ATOM	19193	C	ALA	G1476	79.039	71.665	60.006	1.00	23.44	G
ATOM	19194	O	ALA	G1476	79.881	70.760	60.123	1.00	23.44	G
ATOM	19195	N	ALA	G1477	78.477	72.217	61.076	1.00	57.41	G
ATOM	19196	CA	ALA	G1477	78.820	71.648	62.372	1.00	57.41	G
ATOM	19197	CB	ALA	G1477	78.141	72.403	63.520	1.00	12.23	G
ATOM	19198	C	ALA	G1477	78.257	70.244	62.253	1.00	57.41	G



ATOM	19199	O	ALA	G1477	78.959	69.259	62.467	1.00	57.41	G
ATOM	19200	N	ALA	G1478	76.991	70.173	61.853	1.00	34.33	G
ATOM	19201	CA	ALA	G1478	76.284	68.910	61.684	1.00	34.33	G
ATOM	19202	CB	ALA	G1478	74.827	69.193	61.363	1.00	11.12	G
ATOM	19203	C	ALA	G1478	76.906	68.019	60.602	1.00	34.33	G
ATOM	19204	O	ALA	G1478	76.888	68.345	59.414	1.00	34.33	G
ATOM	19205	N	ALA	G1479	77.453	66.884	61.023	1.00	67.27	G
ATOM	19206	CA	ALA	G1479	78.089	65.960	60.088	1.00	67.27	G
ATOM	19207	CB	ALA	G1479	79.569	66.308	59.935	1.00	100.07	G
ATOM	19208	C	ALA	G1479	77.939	64.498	60.510	1.00	67.27	G
ATOM	19209	O	ALA	G1479	78.704	63.978	61.328	1.00	67.27	G
ATOM	19210	N	ALA	G1480	76.940	63.849	59.926	1.00	78.48	G
ATOM	19211	CA	ALA	G1480	76.628	62.451	60.186	1.00	78.48	G
ATOM	19212	CB	ALA	G1480	77.094	61.594	59.006	1.00	72.49	G
ATOM	19213	C	ALA	G1480	77.147	61.859	61.502	1.00	78.48	G
ATOM	19214	O	ALA	G1480	77.068	62.486	62.567	1.00	78.48	G
ATOM	19215	N	ALA	G1481	77.675	60.639	61.401	1.00	99.54	G
ATOM	19216	CA	ALA	G1481	78.175	59.891	62.548	1.00	99.54	G
ATOM	19217	CB	ALA	G1481	79.232	60.691	63.284	1.00	100.07	G
ATOM	19218	C	ALA	G1481	76.946	59.658	63.423	1.00	99.54	G
ATOM	19219	O	ALA	G1481	77.030	59.519	64.637	1.00	99.54	G
ATOM	19220	N	ALA	G1482	75.805	59.609	62.746	1.00	33.83	G
ATOM	19221	CA	ALA	G1482	74.488	59.414	63.327	1.00	33.83	G
ATOM	19222	CB	ALA	G1482	73.551	58.812	62.304	1.00	100.07	G
ATOM	19223	C	ALA	G1482	74.484	58.558	64.541	1.00	33.83	G
ATOM	19224	O	ALA	G1482	74.412	59.070	65.659	1.00	33.83	G
ATOM	19225	N	ALA	G1483	74.540	57.245	64.327	1.00	86.95	G
ATOM	19226	CA	ALA	G1483	74.527	56.313	65.446	1.00	86.95	G
ATOM	19227	CB	ALA	G1483	73.295	56.560	66.288	1.00	85.90	G
ATOM	19228	C	ALA	G1483	74.582	54.840	65.075	1.00	86.95	G
ATOM	19229	O	ALA	G1483	75.328	54.411	64.192	1.00	86.95	G
ATOM	19230	N	ALA	G1484	73.761	54.082	65.791	1.00	81.05	G
ATOM	19231	CA	ALA	G1484	73.644	52.652	65.624	1.00	81.05	G
ATOM	19232	CB	ALA	G1484	74.998	52.004	65.826	1.00	72.34	G
ATOM	19233	C	ALA	G1484	72.680	52.195	66.705	1.00	81.05	G
ATOM	19234	O	ALA	G1484	72.668	52.769	67.790	1.00	81.05	G
ATOM	19235	N	ALA	G1485	71.858	51.188	66.417	1.00	88.89	G
ATOM	19236	CA	ALA	G1485	70.935	50.680	67.430	1.00	88.89	G
ATOM	19237	CB	ALA	G1485	70.103	49.518	66.871	1.00	26.45	G
ATOM	19238	C	ALA	G1485	71.826	50.196	68.569	1.00	88.89	G
ATOM	19239	O	ALA	G1485	73.020	49.993	68.371	1.00	88.89	G
ATOM	19240	N	ALA	G1486	71.267	50.017	69.758	1.00	95.48	G



ATOM	19283	O	ALA	H	1	54.759	68.983	65.150	1.00	51.03	H
ATOM	19284	N	ALA	H	1	52.654	70.697	65.083	1.00	51.03	H
ATOM	19285	CA	ALA	H	1	52.586	69.458	64.262	1.00	51.03	H
ATOM	19286	N	ALA	H	2	53.742	67.334	64.028	1.00	56.19	H
ATOM	19287	CA	ALA	H	2	54.835	66.385	64.210	1.00	56.19	H
ATOM	19288	CB	ALA	H	2	56.165	66.998	63.720	1.00	43.59	H
ATOM	19289	C	ALA	H	2	54.943	65.977	65.674	1.00	56.19	H
ATOM	19290	O	ALA	H	2	55.549	66.680	66.480	1.00	56.19	H
ATOM	19291	N	PRO	H	3	54.386	64.799	66.014	1.00	100.07	H
ATOM	19292	CD	PRO	H	3	54.440	63.706	65.037	1.00	54.58	H
ATOM	19293	CA	PRO	H	3	54.355	64.231	67.358	1.00	100.07	H
ATOM	19294	CB	PRO	H	3	55.377	63.111	67.233	1.00	54.58	H
ATOM	19295	CG	PRO	H	3	54.985	62.513	65.889	1.00	54.58	H
ATOM	19296	C	PRO	H	3	54.674	65.209	68.465	1.00	100.07	H
ATOM	19297	O	PRO	H	3	53.788	65.921	68.955	1.00	100.07	H
ATOM	19298	N	GLY	H	4	55.940	65.235	68.857	1.00	100.07	H
ATOM	19299	CA	GLY	H	4	56.388	66.134	69.901	1.00	100.07	H
ATOM	19300	C	GLY	H	4	57.618	66.842	69.385	1.00	100.07	H
ATOM	19301	O	GLY	H	4	58.566	67.084	70.128	1.00	100.07	H
ATOM	19302	N	ILE	H	5	57.595	67.166	68.097	1.00	58.01	H
ATOM	19303	CA	ILE	H	5	58.712	67.833	67.456	1.00	58.01	H
ATOM	19304	CB	ILE	H	5	58.255	68.596	66.238	1.00	38.87	H
ATOM	19305	CG2	ILE	H	5	57.357	69.716	66.666	1.00	38.87	H
ATOM	19306	CG1	ILE	H	5	59.476	69.104	65.473	1.00	38.87	H
ATOM	19307	CD	ILE	H	5	59.156	69.849	64.191	1.00	38.87	H
ATOM	19308	C	ILE	H	5	59.415	68.799	68.401	1.00	58.01	H
ATOM	19309	O	ILE	H	5	60.648	68.842	68.454	1.00	58.01	H
ATOM	19310	N	ASP	H	6	58.639	69.583	69.142	1.00	43.17	H
ATOM	19311	CA	ASP	H	6	59.235	70.510	70.093	1.00	43.17	H
ATOM	19312	CB	ASP	H	6	58.179	71.014	71.072	1.00	72.64	H
ATOM	19313	CG	ASP	H	6	57.055	71.745	70.377	1.00	72.64	H
ATOM	19314	OD1	ASP	H	6	57.316	72.816	69.795	1.00	72.64	H
ATOM	19315	OD2	ASP	H	6	55.913	71.249	70.400	1.00	72.64	H
ATOM	19316	C	ASP	H	6	60.282	69.699	70.833	1.00	43.17	H
ATOM	19317	O	ASP	H	6	61.473	69.988	70.780	1.00	43.17	H
ATOM	19318	N	ALA	H	7	59.818	68.647	71.488	1.00	42.82	H
ATOM	19319	CA	ALA	H	7	60.694	67.775	72.245	1.00	42.82	H
ATOM	19320	CB	ALA	H	7	59.940	66.537	72.694	1.00	100.07	H
ATOM	19321	C	ALA	H	7	61.904	67.371	71.439	1.00	42.82	H
ATOM	19322	O	ALA	H	7	62.998	67.258	71.982	1.00	42.82	H
ATOM	19323	N	LEU	H	8	61.715	67.144	70.147	1.00	59.62	H
ATOM	19324	CA	LEU	H	8	62.841	66.745	69.321	1.00	59.62	H
ATOM	19325	CB	LEU	H	8	62.414	66.570	67.865	1.00	61.05	H
ATOM	19326	CG	LEU	H	8	61.357	65.501	67.607	1.00	61.05	H
ATOM	19327	CD1	LEU	H	8	61.234	65.303	66.115	1.00	61.05	H
ATOM	19328	CD2	LEU	H	8	61.738	64.194	68.278	1.00	61.05	H
ATOM	19329	C	LEU	H	8	63.972	67.767	69.419	1.00	59.62	H
ATOM	19330	O	LEU	H	8	65.135	67.406	69.634	1.00	59.62	H
ATOM	19331	N	PHE	H	9	63.648	69.046	69.262	1.00	30.31	H
ATOM	19332	CA	PHE	H	9	64.691	70.053	69.369	1.00	30.31	H
ATOM	19333	CB	PHE	H	9	64.151	71.430	68.962	1.00	27.21	H
ATOM	19334	CG	PHE	H	9	63.535	71.453	67.590	1.00	27.21	H
ATOM	19335	CD1	PHE	H	9	62.165	71.315	67.423	1.00	27.21	H
ATOM	19336	CD2	PHE	H	9	64.334	71.577	66.456	1.00	27.21	H
ATOM	19337	CE1	PHE	H	9	61.596	71.299	66.145	1.00	27.21	H
ATOM	19338	CE2	PHE	H	9	63.771	71.558	65.165	1.00	27.21	H
ATOM	19339	CZ	PHE	H	9	62.395	71.418	65.016	1.00	27.21	H
ATOM	19340	C	PHE	H	9	65.149	70.013	70.832	1.00	30.31	H
ATOM	19341	O	PHE	H	9	66.134	70.643	71.229	1.00	30.31	H
ATOM	19342	N	GLY	H	10	64.414	69.257	71.637	1.00	44.07	H
ATOM	19343	CA	GLY	H	10	64.799	69.114	73.018	1.00	44.07	H
ATOM	19344	C	GLY	H	10	66.137	68.430	72.907	1.00	44.07	H
ATOM	19345	O	GLY	H	10	67.159	68.988	73.274	1.00	44.07	H
ATOM	19346	N	ALA	H	11	66.130	67.229	72.343	1.00	67.78	H
ATOM	19347	CA	ALA	H	11	67.351	66.448	72.171	1.00	67.78	H
ATOM	19348	CB	ALA	H	11	67.039	65.161	71.384	1.00	84.24	H
ATOM	19349	C	ALA	H	11	68.497	67.220	71.498	1.00	67.78	H
ATOM	19350	O	ALA	H	11	69.288	67.877	72.177	1.00	67.78	H
ATOM	19351	N	ALA	H	12	68.575	67.138	70.170	1.00	73.74	H
ATOM	19352	CA	ALA	H	12	69.628	67.792	69.388	1.00	73.74	H
ATOM	19353	CB	ALA	H	12	69.314	67.653	67.913	1.00	70.65	H
ATOM	19354	C	ALA	H	12	69.913	69.262	69.713	1.00	73.74	H
ATOM	19355	O	ALA	H	12	69.068	69.965	70.265	1.00	73.74	H
ATOM	19356	N	ALA	H	13	71.115	69.717	69.362	1.00	68.23	H
ATOM	19357	CA	ALA	H	13	71.519	71.102	69.594	1.00	68.23	H
ATOM	19358	CB	ALA	H	13	73.045	71.224	69.589	1.00	5.07	H
ATOM	19359	C	ALA	H	13	70.931	71.972	68.493	1.00	68.23	H
ATOM	19360	O	ALA	H	13	69.835	72.522	68.637	1.00	68.23	H
ATOM	19361	N	ALA	H	14	71.666	72.079	67.389	1.00	67.76	H
ATOM	19362	CA	ALA	H	14	71.243	72.877	66.245	1.00	67.76	H
ATOM	19363	CB	ALA	H	14	72.353	72.913	65.208	1.00	33.84	H
ATOM	19364	C	ALA	H	14	69.964	72.336	65.615	1.00	67.76	H
ATOM	19365	O	ALA	H	14	69.936	71.203	65.147	1.00	67.76	H
ATOM	19366	N	ALA	H	15	68.905	73.143	65.615	1.00	28.35	H



19450 19449 19448 19447 19446 19445 19444 19443 19442 19441 19440 19439 19438 19437 19436 19435 19434 19433 19432 19431 19430 19429 19428 19427 19426 19425 19424 19423 19422 19421 19420 19419 19418 19417 19416 19415 19414 19413 19412 19411 19410 19409 19408 19407 19406 19405 19404 19403 19402 19401 19400 19399 19398 19397 19396 19395 19394 19393 19392 19391 19390 19389 19388 19387 19386 19385 19384 19383 19382 19381 19380 19379 19378 19377 19376 19375 19374 19373 19372 19371 19370 19369 19368 19367

ATOM	19367	CA	ALA	H	15	67.640	72.738	65.010	1.00	28.35	H
ATOM	19368	CB	ALA	H	15	66.719	73.938	64.818	1.00	45.45	H
ATOM	19369	C	ALA	H	15	68.041	72.202	63.668	1.00	28.35	H
ATOM	19370	O	ALA	H	15	67.796	71.038	63.352	1.00	28.35	H
ATOM	19371	N	ALA	H	16	68.684	73.076	62.891	1.00100.07		H
ATOM	19372	CA	ALA	H	16	69.156	72.754	61.548	1.00100.07		H
ATOM	19373	CB	ALA	H	16	70.136	73.856	61.037	1.00	5.07	H
ATOM	19374	C	ALA	H	16	69.827	71.386	61.567	1.00100.07		H
ATOM	19375	O	ALA	H	16	69.650	70.584	60.661	1.00100.07		H
ATOM	19376	N	ALA	H	17	70.578	71.105	62.620	1.00	67.26	H
ATOM	19377	CA	ALA	H	17	71.244	69.818	62.723	1.00	67.26	H
ATOM	19378	CB	ALA	H	17	72.139	69.791	63.955	1.00100.07		H
ATOM	19379	C	ALA	H	17	70.231	68.669	62.776	1.00	67.26	H
ATOM	19380	O	ALA	H	17	70.162	67.869	61.846	1.00	67.26	H
ATOM	19381	N	ALA	H	18	69.449	68.598	63.855	1.00	92.49	H
ATOM	19382	CA	ALA	H	18	68.444	67.543	64.034	1.00	92.49	H
ATOM	19383	CB	ALA	H	18	67.193	68.094	64.718	1.00	34.88	H
ATOM	19384	C	ALA	H	18	68.050	66.915	62.719	1.00	92.49	H
ATOM	19385	O	ALA	H	18	68.233	65.717	62.519	1.00	92.49	H
ATOM	19386	N	ALA	H	19	67.511	67.734	61.823	1.00	50.11	H
ATOM	19387	CA	ALA	H	19	67.085	67.250	60.525	1.00	50.11	H
ATOM	19388	CB	ALA	H	19	66.963	68.409	59.544	1.00	21.38	H
ATOM	19389	C	ALA	H	19	68.078	66.203	60.029	1.00	50.11	H
ATOM	19390	O	ALA	H	19	67.683	65.163	59.518	1.00	50.11	H
ATOM	19391	N	ALA	H	20	69.366	66.459	60.203	1.00	34.22	H
ATOM	19392	CA	ALA	H	20	70.369	65.489	59.783	1.00	34.22	H
ATOM	19393	CB	ALA	H	20	71.770	65.983	60.147	1.00	54.33	H
ATOM	19394	C	ALA	H	20	70.096	64.108	60.425	1.00	34.22	H
ATOM	19395	O	ALA	H	20	69.563	63.217	59.763	1.00	34.22	H
ATOM	19396	N	ALA	H	21	70.441	63.927	61.702	1.00	23.83	H
ATOM	19397	CA	ALA	H	21	70.219	62.640	62.373	1.00	23.83	H
ATOM	19398	CB	ALA	H	21	70.144	62.823	63.885	1.00	21.97	H
ATOM	19399	C	ALA	H	21	68.958	61.933	61.873	1.00	23.83	H
ATOM	19400	O	ALA	H	21	69.024	60.778	61.456	1.00	23.83	H
ATOM	19401	N	ALA	H	22	67.818	62.620	61.897	1.00	41.15	H
ATOM	19402	CA	ALA	H	22	66.572	62.007	61.438	1.00	41.15	H
ATOM	19403	CB	ALA	H	22	65.391	62.947	61.666	1.00	5.07	H
ATOM	19404	C	ALA	H	22	66.674	61.650	59.963	1.00	41.15	H
ATOM	19405	O	ALA	H	22	66.083	60.678	59.500	1.00	41.15	H
ATOM	19406	N	ALA	H	23	67.429	62.436	59.217	1.00	29.93	H
ATOM	19407	CA	ALA	H	23	67.577	62.169	57.803	1.00	29.93	H
ATOM	19408	CB	ALA	H	23	68.173	63.370	57.107	1.00	91.10	H
ATOM	19409	C	ALA	H	23	68.458	60.954	57.593	1.00	29.93	H
ATOM	19410	O	ALA	H	23	68.223	60.166	56.683	1.00	29.93	H
ATOM	19411	N	ALA	H	24	69.475	60.805	58.439	1.00	62.52	H
ATOM	19412	CA	ALA	H	24	70.398	59.678	58.335	1.00	62.52	H
ATOM	19413	CB	ALA	H	24	71.643	59.941	59.164	1.00	67.26	H
ATOM	19414	C	ALA	H	24	69.744	58.362	58.759	1.00	62.52	H
ATOM	19415	O	ALA	H	24	69.883	57.358	58.069	1.00	62.52	H
ATOM	19416	N	ALA	H	25	69.033	58.359	59.886	1.00	37.92	H
ATOM	19417	CA	ALA	H	25	68.360	57.134	60.337	1.00	37.92	H
ATOM	19418	CB	ALA	H	25	67.632	57.366	61.694	1.00	5.07	H
ATOM	19419	C	ALA	H	25	67.367	56.662	59.259	1.00	37.92	H
ATOM	19420	O	ALA	H	25	67.464	55.536	58.764	1.00	37.92	H
ATOM	19421	N	ALA	H	26	66.415	57.515	58.891	1.00	59.67	H
ATOM	19422	CA	ALA	H	26	65.459	57.132	57.864	1.00	59.67	H
ATOM	19423	CB	ALA	H	26	64.643	58.327	57.408	1.00	32.00	H
ATOM	19424	C	ALA	H	26	66.332	56.627	56.739	1.00	59.67	H
ATOM	19425	O	ALA	H	26	65.960	55.704	56.015	1.00	59.67	H
ATOM	19426	N	ALA	H	27	67.509	57.238	56.616	1.00	67.09	H
ATOM	19427	CA	ALA	H	27	68.477	56.850	55.599	1.00	67.09	H
ATOM	19428	CB	ALA	H	27	69.372	58.038	55.218	1.00	25.22	H
ATOM	19429	C	ALA	H	27	69.316	55.721	56.185	1.00	67.09	H
ATOM	19430	O	ALA	H	27	70.543	55.811	56.247	1.00	67.09	H
ATOM	19431	N	ALA	H	28	68.629	54.670	56.635	1.00	80.50	H
ATOM	19432	CA	ALA	H	28	69.256	53.486	57.227	1.00	80.50	H
ATOM	19433	CB	ALA	H	28	69.983	53.853	58.523	1.00	66.64	H
ATOM	19434	C	ALA	H	28	68.169	52.462	57.518	1.00	80.50	H
ATOM	19435	O	ALA	H	28	68.428	51.264	57.602	1.00	80.50	H
ATOM	19436	N	ALA	H	29	66.947	52.955	57.672	1.00	63.90	H
ATOM	19437	CA	ALA	H	29	65.804	52.103	57.959	1.00	63.90	H
ATOM	19438	CB	ALA	H	29	64.956	52.734	59.078	1.00	65.39	H
ATOM	19439	C	ALA	H	29	64.960	51.897	56.699	1.00	63.90	H
ATOM	19440	O	ALA	H	29	64.171	50.953	56.606	1.00	63.90	H
ATOM	19441	N	ALA	H	30	65.135	52.784	55.727	1.00100.07		H
ATOM	19442	CA	ALA	H	30	64.377	52.699	54.489	1.00100.07		H
ATOM	19443	CB	ALA	H	30	64.407	54.042	53.767	1.00	55.40	H
ATOM	19444	C	ALA	H	30	64.899	51.601	53.569	1.00100.07		H
ATOM	19445	O	ALA	H	30	64.514	51.537	52.400	1.00100.07		H
ATOM	19446	N	ALA	H	31	65.766	50.737	54.092	1.00100.07		H
ATOM	19447	CA	ALA	H	31	66.330	49.651	53.286	1.00100.07		H
ATOM	19448	CB	ALA	H	31	67.609	50.132	52.591	1.00100.07		H
ATOM	19449	C	ALA	H	31	66.619	48.385	54.098	1.00100.07		H
ATOM	19450	O	ALA	H	31	67.592	47.675	53.834	1.00100.07		H



ATOM	19451	N	ALA	H	32	65.760	48.101	55.072	1.00	46.43	
ATOM	19452	CA	ALA	H	32	65.922	46.933	55.929	1.00	46.43	H
ATOM	19453	CB	ALA	H	32	67.351	46.893	56.512	1.00	27.57	H
ATOM	19454	C	ALA	H	32	64.908	46.999	57.060	1.00	46.43	H
ATOM	19455	O	ALA	H	32	65.258	47.360	58.181	1.00	46.43	H
ATOM	19456	N	ALA	H	33	63.655	46.665	56.773	1.00	100.07	H
ATOM	19457	CA	ALA	H	33	62.630	46.693	57.810	1.00	100.07	H
ATOM	19458	CB	ALA	H	33	61.387	45.943	57.342	1.00	41.38	H
ATOM	19459	C	ALA	H	33	63.181	46.042	59.079	1.00	100.07	H
ATOM	19460	O	ALA	H	33	63.018	46.567	60.186	1.00	100.07	H
ATOM	19461	N	ALA	H	34	63.849	44.903	58.891	1.00	55.51	H
ATOM	19462	CA	ALA	H	34	64.431	44.123	59.979	1.00	55.51	H
ATOM	19463	CB	ALA	H	34	65.037	42.835	59.414	1.00	53.39	H
ATOM	19464	C	ALA	H	34	65.468	44.852	60.836	1.00	55.51	H
ATOM	19465	O	ALA	H	34	66.579	44.349	61.025	1.00	55.51	H
ATOM	19466	N	ALA	H	35	65.098	46.029	61.348	1.00	95.30	H
ATOM	19467	CA	ALA	H	35	65.960	46.837	62.222	1.00	95.30	H
ATOM	19468	CB	ALA	H	35	66.767	47.856	61.413	1.00	52.87	H
ATOM	19469	C	ALA	H	35	65.088	47.558	63.248	1.00	95.30	H
ATOM	19470	O	ALA	H	35	64.663	46.962	64.237	1.00	95.30	H
ATOM	19471	N	ALA	H	36	64.818	48.837	63.010	1.00	99.95	H
ATOM	19472	CA	ALA	H	36	63.989	49.631	63.914	1.00	99.95	H
ATOM	19473	CB	ALA	H	36	62.532	49.184	63.809	1.00	40.22	H
ATOM	19474	C	ALA	H	36	64.454	49.525	65.364	1.00	99.95	H
ATOM	19475	O	ALA	H	36	65.555	49.043	65.643	1.00	99.95	H
ATOM	19476	N	ALA	H	37	63.601	49.994	66.275	1.00	51.63	H
ATOM	19477	CA	ALA	H	37	63.843	49.964	67.726	1.00	51.63	H
ATOM	19478	CB	ALA	H	37	64.909	50.984	68.136	1.00	9.23	H
ATOM	19479	C	ALA	H	37	62.512	50.310	68.368	1.00	51.63	H
ATOM	19480	O	ALA	H	37	62.411	50.490	69.580	1.00	51.63	H
ATOM	19481	N	ALA	H	38	61.498	50.420	67.514	1.00	100.07	H
ATOM	19482	CA	ALA	H	38	60.141	50.717	67.937	1.00	100.07	H
ATOM	19483	CB	ALA	H	38	59.458	51.636	66.912	1.00	19.88	H
ATOM	19484	C	ALA	H	38	59.430	49.365	68.017	1.00	100.07	H
ATOM	19485	O	ALA	H	38	58.434	49.122	67.329	1.00	100.07	H
ATOM	19486	N	ALA	H	39	59.976	48.485	68.859	1.00	99.59	H
ATOM	19487	CA	ALA	H	39	59.450	47.136	69.066	1.00	99.59	H
ATOM	19488	CB	ALA	H	39	60.207	46.452	70.199	1.00	100.07	H
ATOM	19489	C	ALA	H	39	57.964	47.136	69.372	1.00	99.59	H
ATOM	19490	O	ALA	H	39	57.538	47.648	70.404	1.00	99.59	H
ATOM	19491	N	ALA	H	40	57.188	46.553	68.464			



ATOM	19535	O	ALA	H	48	43.243	47.555	56.457	1.00	96.53	
ATOM	19536	N	ALA	H	49	43.023	49.786	56.787	1.00	100.07	H
ATOM	19537	CA	ALA	H	49	44.075	50.006	57.784	1.00	100.07	H
ATOM	19538	CB	ALA	H	49	43.541	50.893	58.906	1.00	61.55	H
ATOM	19539	C	ALA	H	49	44.781	48.812	58.398	1.00	100.07	H
ATOM	19540	O	ALA	H	49	44.331	48.258	59.402	1.00	100.07	H
ATOM	19541	N	ALA	H	50	45.908	48.442	57.802	1.00	80.00	H
ATOM	19542	CA	ALA	H	50	46.717	47.341	58.297	1.00	80.00	H
ATOM	19543	CB	ALA	H	50	47.029	46.358	57.169	1.00	67.81	H
ATOM	19544	C	ALA	H	50	47.990	47.993	58.809	1.00	80.00	H
ATOM	19545	O	ALA	H	50	47.961	49.126	59.282	1.00	80.00	H
ATOM	19546	N	ALA	H	51	49.106	47.285	58.706	1.00	78.65	H
ATOM	19547	CA	ALA	H	51	50.387	47.819	59.157	1.00	78.65	H
ATOM	19548	CB	ALA	H	51	51.431	46.692	59.217	1.00	72.47	H
ATOM	19549	C	ALA	H	51	50.857	48.926	58.213	1.00	78.65	H
ATOM	19550	O	ALA	H	51	50.054	49.469	57.449	1.00	78.65	H
ATOM	19551	N	ALA	H	52	52.148	49.260	58.303	1.00	93.82	H
ATOM	19552	CA	ALA	H	52	52.808	50.266	57.464	1.00	93.82	H
ATOM	19553	CB	ALA	H	52	52.040	50.451	56.148	1.00	75.48	H
ATOM	19554	C	ALA	H	52	53.123	51.638	58.068	1.00	93.82	H
ATOM	19555	O	ALA	H	52	53.219	51.798	59.284	1.00	93.82	H
ATOM	19556	N	GLU	H	53	53.291	52.601	57.160	1.00	81.65	H
ATOM	19557	CA	GLU	H	53	53.640	54.004	57.405	1.00	81.65	H
ATOM	19558	CB	GLU	H	53	53.868	54.317	58.887	1.00	97.30	H
ATOM	19559	CG	GLU	H	53	54.489	55.703	59.149	1.00	97.30	H
ATOM	19560	CD	GLU	H	53	53.718	56.848	58.496	1.00	97.30	H
ATOM	19561	OE1	GLU	H	53	52.522	57.009	58.810	1.00	97.30	H
ATOM	19562	OE2	GLU	H	53	54.306	57.588	57.675	1.00	97.30	H
ATOM	19563	C	GLU	H	53	54.945	54.192	56.656	1.00	81.65	H
ATOM	19564	O	GLU	H	53	55.997	54.404	57.259	1.00	81.65	H
ATOM	19565	N	ALA	H	54	54.871	54.079	55.337	1.00	61.43	H
ATOM	19566	CA	ALA	H	54	56.047	54.226	54.500	1.00	61.43	H
ATOM	19567	CB	ALA	H	54	55.625	54.505	53.064	1.00	73.24	H
ATOM	19568	C	ALA	H	54	57.006	55.317	55.001	1.00	61.43	H
ATOM	19569	O	ALA	H	54	58.009	55.002	55.635	1.00	61.43	H
ATOM	19570	N	ALA	H	55	56.699	56.586	54.727	1.00	100.07	H
ATOM	19571	CA	ALA	H	55	57.539	57.724	55.136	1.00	100.07	H
ATOM	19572	CB	ALA	H	55	56.648	58.897	55.558	1.00	42.52	H
ATOM	19573	C	ALA	H	55	58.573	57.431	56.240	1.00	100.07	H
ATOM	19574	O	ALA	H	55	58.264	57.504	57.431	1.00	100.07	H
ATOM	19575	N	ALA	H	56	59.804	57.1				



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ATOM	19619	O	ALA	H	64	64.292	58.912	70.533	1.00	50.52	H
ATOM	19620	N	ALA	H	65	64.295	61.016	69.733	1.00	83.44	H
ATOM	19621	CA	ALA	H	65	63.781	61.577	70.977	1.00	83.44	H
ATOM	19622	CB	ALA	H	65	63.433	63.049	70.803	1.00	100.07	H
ATOM	19623	C	ALA	H	65	62.533	60.750	71.228	1.00	83.44	H
ATOM	19624	O	ALA	H	65	61.431	61.076	70.774	1.00	83.44	H
ATOM	19625	N	ALA	H	66	62.751	59.651	71.935	1.00	86.00	H
ATOM	19626	CA	ALA	H	66	61.715	58.693	72.253	1.00	86.00	H
ATOM	19627	CB	ALA	H	66	60.901	58.374	71.005	1.00	100.07	H
ATOM	19628	C	ALA	H	66	62.445	57.445	72.734	1.00	86.00	H
ATOM	19629	O	ALA	H	66	62.942	57.403	73.866	1.00	86.00	H
ATOM	19630	N	ALA	H	67	62.520	56.438	71.865	1.00	82.79	H
ATOM	19631	CA	ALA	H	67	63.205	55.201	72.202	1.00	82.79	H
ATOM	19632	CB	ALA	H	67	63.423	54.379	70.958	1.00	39.56	H
ATOM	19633	C	ALA	H	67	64.540	55.552	72.857	1.00	82.79	H
ATOM	19634	O	ALA	H	67	65.126	54.742	73.569	1.00	82.79	H
ATOM	19635	N	ALA	H	68	65.006	56.771	72.600	1.00	64.69	H
ATOM	19636	CA	ALA	H	68	66.236	57.296	73.183	1.00	64.69	H
ATOM	19637	CB	ALA	H	68	66.078	57.392	74.701	1.00	5.07	H
ATOM	19638	C	ALA	H	68	67.518	56.544	72.838	1.00	64.69	H
ATOM	19639	O	ALA	H	68	68.553	56.726	73.491	1.00	64.69	H
ATOM	19640	N	ALA	H	69	67.459	55.703	71.816	1.00	71.17	H
ATOM	19641	CA	ALA	H	69	68.642	54.960	71.415	1.00	71.17	H
ATOM	19642	CB	ALA	H	69	68.243	53.644	70.763	1.00	73.03	H
ATOM	19643	C	ALA	H	69	69.430	55.821	70.440	1.00	71.17	H
ATOM	19644	O	ALA	H	69	69.299	57.047	70.439	1.00	71.17	H
ATOM	19645	N	ALA	H	70	70.240	55.173	69.609	1.00	59.62	H
ATOM	19646	CA	ALA	H	70	71.061	55.867	68.625	1.00	59.62	H
ATOM	19647	CB	ALA	H	70	70.199	56.829	67.821	1.00	60.85	H
ATOM	19648	C	ALA	H	70	72.193	56.611	69.332	1.00	59.62	H
ATOM	19649	O	ALA	H	70	72.417	56.414	70.525	1.00	59.62	H
ATOM	19650	N	ALA	H	71	72.899	57.468	68.606	1.00	65.27	H
ATOM	19651	CA	ALA	H	71	74.010	58.207	69.185	1.00	65.27	H
ATOM	19652	CB	ALA	H	71	75.305	57.465	68.937	1.00	100.07	H
ATOM	19653	C	ALA	H	71	74.125	59.628	68.657	1.00	65.27	H
ATOM	19654	O	ALA	H	71	73.112	60.281	68.398	1.00	65.27	H
ATOM	19655	N	ALA	H	72	75.365	60.098	68.493	1.00	55.71	H
ATOM	19656	CA	ALA	H	72	75.622	61.460	68.022	1.00	55.71	H
ATOM	19657	CB	ALA	H	72	76.227	62.296	69.154	1.00	73.67	H
ATOM	19658	C	ALA	H	72	76.492	61.582	66.778	1.00	55.71	H
ATOM	19659	O	ALA	H	72	76.034	61.327	65.658	1.00	55.71	H
ATOM	19660	N	ALA	H	73	77.739	62.008	66.975	1.00	40.72	H
ATOM	19661	CA	ALA	H	73	78.672	62.189	65.864	1.00	40.72	H
ATOM	19662	CB	ALA	H	73	78.452	63.541	65.212	1.00	79.62	H
ATOM	19663	C	ALA	H	73	80.116	62.065	66.324	1.00	40.72	H
ATOM	19664	O	ALA	H	73	80.528	62.754	67.256	1.00	40.72	H
ATOM	19665	N	ALA	H	74	80.868	61.198	65.639	1.00	95.89	H
ATOM	19666	CA	ALA	H	74	82.272	60.867	65.924	1.00	95.89	H
ATOM	19667	CB	ALA	H	74	82.966	61.962	66.744	1.00	15.50	H
ATOM	19668	C	ALA	H	74	82.245	59.564	66.719	1.00	95.89	H
ATOM	19669	O	ALA	H	74	83.108	59.311	67.558	1.00	95.89	H
ATOM	19670	N	ALA	H	75	81.226	58.751	66.446	1.00	100.07	H
ATOM	19671	CA	ALA	H	75	81.038	57.466	67.111	1.00	100.07	H
ATOM	19672	CB	ALA	H	75	79.548	57.116	67.165	1.00	44.27	H
ATOM	19673	C	ALA	H	75	81.807	56.382	66.365	1.00	100.07	H
ATOM	19674	O	ALA	H	75	82.995	56.186	66.613	1.00	100.07	H
ATOM	19675	N	ALA	H	76	81.128	55.685	65.453	1.00	41.38	H
ATOM	19676	CA	ALA	H	76	81.744	54.626	64.657	1.00	41.38	H
ATOM	19677	CB	ALA	H	76	80.833	54.277	63.498	1.00	45.25	H
ATOM	19678	C	ALA	H	76	83.119	55.050	64.127	1.00	41.38	H
ATOM	19679	O	ALA	H	76	83.894	54.221	63.631	1.00	41.38	H
ATOM	19680	N	ALA	H	77	83.399	56.350	64.237	1.00	99.89	H
ATOM	19681	CA	ALA	H	77	84.654	56.951	63.790	1.00	99.89	H
ATOM	19682	CB	ALA	H	77	85.851	56.182	64.363	1.00	75.98	H
ATOM	19683	C	ALA	H	77	84.698	56.947	62.268	1.00	99.89	H
ATOM	19684	O	ALA	H	77	84.543	57.988	61.622	1.00	99.89	H
ATOM	19685	N	ALA	H	78	84.908	55.765	61.703	1.00	99.61	H
ATOM	19686	CA	ALA	H	78	84.956	55.616	60.260	1.00	99.61	H
ATOM	19687	CB	ALA	H	78	86.239	54.888	59.836	1.00	60.65	H
ATOM	19688	C	ALA	H	78	83.735	54.831	59.809	1.00	99.61	H
ATOM	19689	O	ALA	H	78	83.415	53.774	60.368	1.00	99.61	H
ATOM	19690	N	ALA	H	79	83.040	55.369	58.811	1.00	78.33	H
ATOM	19691	CA	ALA	H	79	81.877	54.695	58.264	1.00	78.33	H
ATOM	19692	CB	ALA	H	79	81.225	55.554	57.189	1.00	66.29	H
ATOM	19693	C	ALA	H	79	82.466	53.427	57.665	1.00	78.33	H
ATOM	19694	O	ALA	H	79	81.750	52.492	57.294	1.00	78.33	H
ATOM	19695	N	ALA	H	80	83.795	53.427	57.577	1.00	92.64	H
ATOM	19696	CA	ALA	H	80	84.566	52.306	57.065	1.00	92.64	H
ATOM	19697	CB	ALA	H	80	86.038	52.504	57.404	1.00	47.94	H
ATOM	19698	C	ALA	H	80	84.022	51.080	57.775	1.00	92.64	H
ATOM	19699	O	ALA	H	80	83.921	49.995	57.205	1.00	92.64	H
ATOM	19700	N	ALA	H	81	83.663	51.283	59.035	1.00	78.72	H
ATOM	19701	CA	ALA	H	81	83.107	50.229	59.862	1.00	78.72	H
ATOM	19702	CB	ALA	H	81	83.515	50.441	61.303	1.00	100.07	H



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ATOM	19703	C	ALA	H	81	81.590	50.251	59.743	1.00	78.72	H
ATOM	19704	O	ALA	H	81	80.924	49.253	60.012	1.00	78.72	H
ATOM	19705	N	ALA	H	82	81.046	51.399	59.347	1.00	99.31	H
ATOM	19706	CA	ALA	H	82	79.603	51.533	59.198	1.00	99.31	H
ATOM	19707	CB	ALA	H	82	79.244	52.909	58.635	1.00	38.43	H
ATOM	19708	C	ALA	H	82	79.056	50.433	58.295	1.00	99.31	H
ATOM	19709	O	ALA	H	82	78.000	49.872	58.574	1.00	99.31	H
ATOM	19710	N	ALA	H	83	79.767	50.108	57.221	1.00	83.69	H
ATOM	19711	CA	ALA	H	83	79.297	49.054	56.323	1.00	83.69	H
ATOM	19712	CB	ALA	H	83	80.126	49.050	55.038	1.00	88.80	H
ATOM	19713	C	ALA	H	83	79.347	47.669	56.997	1.00	83.69	H
ATOM	19714	O	ALA	H	83	79.092	46.637	56.359	1.00	83.69	H
ATOM	19715	N	ALA	H	84	79.668	47.663	58.291	1.00	95.62	H
ATOM	19716	CA	ALA	H	84	79.761	46.431	59.074	1.00	95.62	H
ATOM	19717	CB	ALA	H	84	79.966	46.763	60.554	1.00	46.16	H
ATOM	19718	C	ALA	H	84	78.504	45.590	58.910	1.00	95.62	H
ATOM	19719	O	ALA	H	84	78.329	44.889	57.905	1.00	95.62	H
ATOM	19720	N	ALA	H	85	77.636	45.673	59.917	1.00	100.07	H
ATOM	19721	CA	ALA	H	85	76.373	44.946	59.925	1.00	100.07	H
ATOM	19722	CB	ALA	H	85	75.660	45.146	61.260	1.00	54.80	H
ATOM	19723	C	ALA	H	85	75.505	45.440	58.770	1.00	100.07	H
ATOM	19724	O	ALA	H	85	74.314	45.115	58.672	1.00	100.07	H
ATOM	19725	N	ALA	H	86	76.114	46.244	57.904	1.00	100.07	H
ATOM	19726	CA	ALA	H	86	75.429	46.754	56.732	1.00	100.07	H
ATOM	19727	CB	ALA	H	86	76.161	47.972	56.170	1.00	82.24	H
ATOM	19728	C	ALA	H	86	75.487	45.590	55.752	1.00	100.07	H
ATOM	19729	O	ALA	H	86	75.436	45.769	54.534	1.00	100.07	H
ATOM	19730	N	ALA	H	87	75.612	44.393	56.316	1.00	100.07	H
ATOM	19731	CA	ALA	H	87	75.673	43.158	55.552	1.00	100.07	H
ATOM	19732	CB	ALA	H	87	77.055	42.521	55.699	1.00	100.07	H
ATOM	19733	C	ALA	H	87	74.592	42.221	56.088	1.00	100.07	H
ATOM	19734	O	ALA	H	87	73.701	41.804	55.341	1.00	100.07	H
ATOM	19735	N	ALA	H	88	74.678	41.911	57.386	1.00	100.07	H
ATOM	19736	CA	ALA	H	88	73.722	41.031	58.066	1.00	100.07	H
ATOM	19737	CB	ALA	H	88	73.884	41.151	59.585	1.00	88.45	H
ATOM	19738	C	ALA	H	88	72.297	41.396	57.657	1.00	100.07	H
ATOM	19739	O	ALA	H	88	71.702	42.328	58.210	1.00	100.07	H
ATOM	19740	N	ALA	H	89	71.767	40.638	56.696	1.00	84.93	H
ATOM	19741	CA	ALA	H	89	70.434	40.850	56.142	1.00	84.93	H
ATOM	19742	CB	ALA	H	89	69.360	40.611	57.198	1.00	100.07	H
ATOM	19743	C	ALA	H	89	70.353	42.276	55.613	1.00	84.93	H
ATOM	19744	O	ALA	H	89	70.494	42.503	54.414	1.00	84.93	H
ATOM	19745	N	ALA	H	90	70.153	43.229	56.519	1.00	100.07	H
ATOM	19746	CA	ALA	H	90	70.042	44.648	56.177	1.00	100.07	H
ATOM	19747	CB	ALA	H	90	70.386	45.510	57.406	1.00	38.54	H
ATOM	19748	C	ALA	H	90	70.904	45.071	54.986	1.00	100.07	H
ATOM	19749	O	ALA	H	90	72.040	45.507	55.167	1.00	100.07	H
ATOM	19750	N	ALA	H	91	70.339	44.944	53.781	1.00	100.07	H
ATOM	19751	CA	ALA	H	91	70.989	45.301	52.511	1.00	100.07	H
ATOM	19752	CB	ALA	H	91	72.501	45.116	52.596	1.00	100.07	H
ATOM	19753	C	ALA	H	91	70.439	44.473	51.346	1.00	100.07	H
ATOM	19754	O	ALA	H	91	70.869	43.307	51.205	1.00	100.07	H
ATOM	19755	OT	ALA	H	91	69.584	44.991	50.592	1.00	100.07	H
ATOM	19756	MG+2	MG	I	1	45.365	88.876	44.194	1.00	58.09	I
ATOM	19757	ZN+2	ZN	J	1	80.834	86.397	68.754	1.00	58.09	J

END